POWER TRANSMISSION & DISTRIBUTION PRODUCT CATALOG

For North America









GRID CONNECTIVITY + RELIABILITY

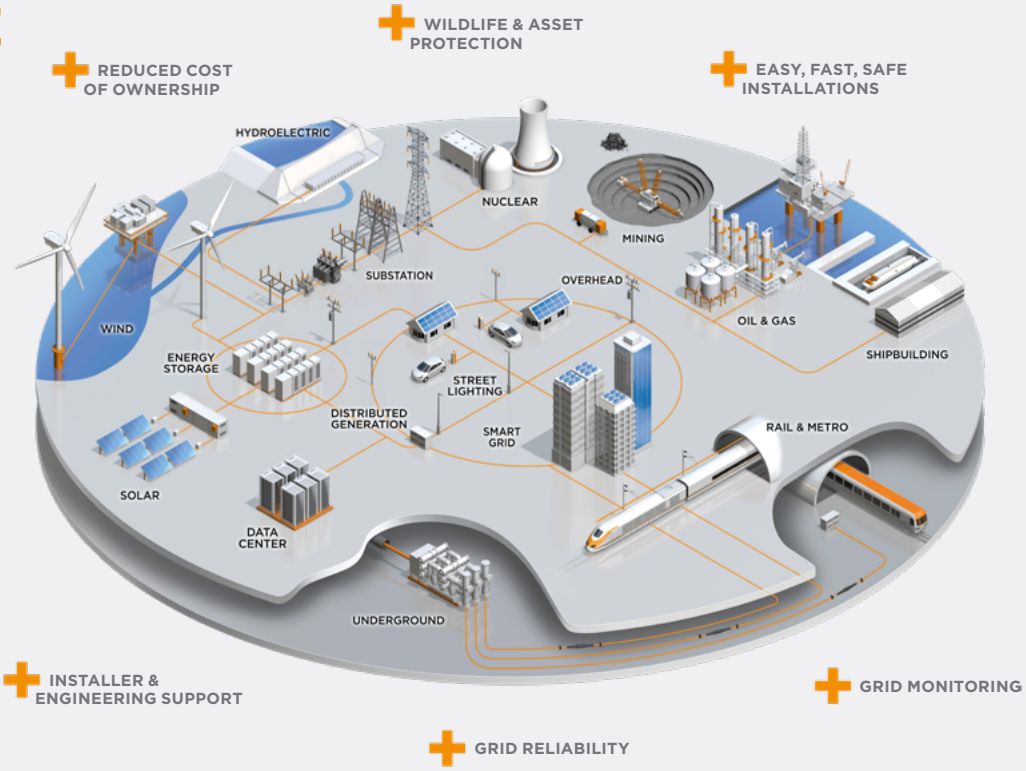
You're faced with daily challenges, like unforgiving environments, installation accuracy, constantly evolving technology, and animal-induced outages. We're ready to help. **With over 65 years of electrical engineering experience** and a global workforce dedicated to the Energy industry on a local level, we know how to make every connection count across the energy landscape.

+ EQUALS MORE

We're with you every step of the way to keep the backbone of your grid connected, from generation to transmission and distribution to wherever energy is needed.

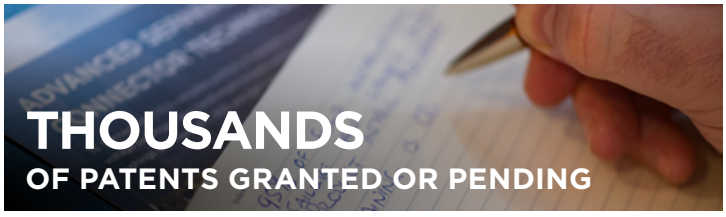
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- Connectors & Fittings
- Insulation & Protection
- Smart Grid Systems
- Metering
- Installation Training & Field Services



INNOVATION + COLLABORATION











WE ARE THE BRANDS YOU RELY ON

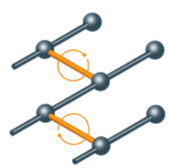
Our experience is built on the foundation of industry-leading quality brands, so **if you know Raychem, you know TE Connectivity**. We are the **inventors of heat shrink technology,** and we have nearly three decades of **proven performance in cold-applied technologies.**



EXTREMES + RELIABILITY

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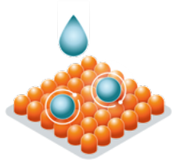
MATERIAL INNOVATION


Cross-Linked


UV Stable

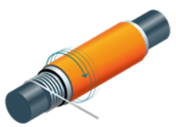

Non-Tracking


Flame-Retardant


Non-Wetting

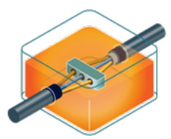

Surge Suppression


Heat Shrink


Cold Applied


Shear Bolt


Resins


Power Gel


Advanced Conductive

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The right products alone don't ensure grid reliability. Correct installation is a key factor that determines long-term product performance and grid reliability. **Network outages** are a costly disruption and they **can be prevented with proper training.**







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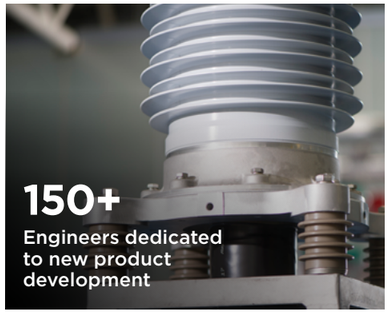
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Our **ISO-17025 accredited engineering laboratories** perform critical electrical, mechanical, and environmental tests in accordance with international quality testing standards as listed below. We place a special focus on customer-related testing and as your testing partner, **we can perform accredited testing in 20+ competencies for a broad range of products up to 245 kV**, such as connectors, insulators, wildlife and asset protection and cable accessories.

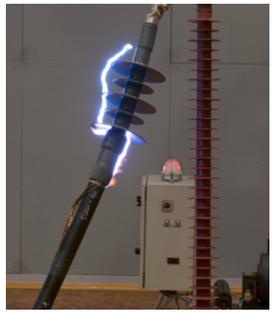






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- High Voltage Testing
- Short Circuit Testing
- Temperature Rise Testing
- Material Testing
- Artificial Pollution Testing
- Robustness Testing





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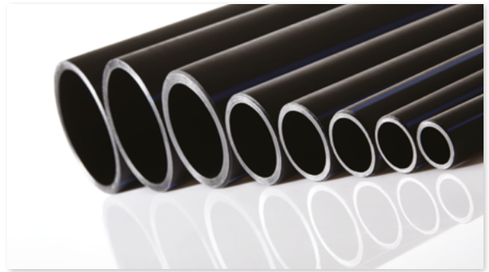
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Chapter I
Connectors & Terminals

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Aluminum Shear Bolt Splice Connectors

FEATURES

- Shear Bolt connectors meet the electrical requirements (Class A) of ANSI C119.4 and exceed the mechanical requirements of a class 3 connector by a large margin of safety.
- The solid center stop inside the connector ensures proper conductor positioning and eliminates oil leakage when connecting oil impregnated conductors.
- Design made from seamless, high conductivity, high strength, tin-plated aluminum alloy for heavy-duty utility applications
- Compact and smooth body design
- Dual rated for aluminum and copper conductors

APPLICATIONS

- Accommodate a conductor range from #2 compact to 1000 kcmil concentric, stranded Class B.
- The primary application of aluminum Shear Bolt connectors is for underground splices up to 35 kV.
- Shear Bolt connectors are ideally suited for aluminum to aluminum, aluminum to copper and copper to copper applications making them the universal connector solution. Please refer to tests listed below.
- Shear Bolt connectors are designed to be compatible with TE Raychem brand cable accessories and insulation products.

BENEFITS

- TE Connectivity's aluminum Shear Bolt connectors are range-taking mechanical connectors. Just three connectors will accommodate a wide range of aluminum and copper conductors from #2 AWG compact stranded to 1000 kcmil standard stranded class B and also flexible conductors.
- Provides long service life under normal operating conditions with reserve capacity for emergency loading conditions.
- The connector design incorportes shear head bolts, which ensures that the correct torque is applied to each bolt and the optimal contact force is generated to minimize connection resistance.





PRODUCT SPECIFICATIONS

Wide application range	Six connectors needed to accommodate all cable sizes from #2 AWG compact strand to 1000 kcmil concentric stranded in both aluminum and copper	Reduces inventory and prevents accidental use of the wrong connector
Hexagonal shear head bolts	Installs with simple ratchet-type socket wrench	Installs easily and quickly in confined areas
No crimp tooling or dies required	Installs easily using readily available tools	Ease of installation. Installation tool is no longer a source of failure. Reduces tool and die inventory, maintenance and cost
Torque-controlled shear head bolts	Sheared head gives positive indication of correct installation	Low contact resistance gives superior electrical performance
Centering inserts for small diameter conductors	Properly positions small conductors for proper connection	Minimizes voltage stresses at transition from connector body to cable installation
Knurled inner bore	Unique profile breaks through conductor oxides and grips conductor strands	Generates low contact resistance and increases pullout rating
Solid center stop	Eliminates oil leakage and insures proper conductor position	Accommodates transition applications from polymeric to oil impregnated conductors

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Part Number	Conductor Range	O.D. Range	Length	Connector O.D.	Strip Length	Number of Bolts	Socket Size
Aluminum Shear Bolt Splice Connectors								
ASBS-2-3/0	1574846-4	2 AWG compact stranded to 3/0 AWG concentric	.268-.470 (6.8-11.9)	2.5 (65)	.95 (24)	1 1/8 (28.5)	2	3/8 (10)
ASBS-2-350	1099739-1	2 AWG compact stranded to 350 kcmil concentric	.268-.681 (6.8-17.3)	3.9 (100)	1.22 (31)	1 3/4 (44.4)	4	1/2 (13)
ASBS-3/0-500	1974130-1	3/0 AWG compact stranded to 500 kcmil concentric	.423-.813 (10.7-20.6)	4.9 (125)	1.3 (34)	2 3/8 (60)	4	1/2 (13)
ASBS-350-750	1099383-1	350 kcmil compact stranded to 750 kcmil concentric	.616-.998 (15.6-25.3)	6.7 (170)	1.67 (42.5)	3 1/8 (80)	6	1/2 (13)
ASBS-500-750	1099735-1	500 kcmil compact stranded to 750 kcmil concentric	.736-.998 (18.7-25.3)	6.0 (152)	1.52 (39)	2 7/8 (73)	6	1/2 (13)
ASBS-600-1000	1099848-1	600 kcmil compact stranded to 1000 kcmil concentric	.813-1.152 (20.6-29.2)	8.0 (203)	1.75 (44.4)	3 7/8 (98)	6	1/2 (13)

Catalog Number	Part Number	Conductor Range	O.D. Range	Length	Connector O.D.	Strip Length	Number of Bolts	Socket Size	Insert Used
Aluminum Shear Bolt Splice Connectors UL/CSA Listed									
ASBS-2-U	1974155-1	2 AWG compact to 2 AWG concentric	0.268-0.292 (6.81-7.42)	2.6 (65)	0.94 (24)	1 1/8 (28.5)	2	3/8 (10)	Yes**
ASBS-2-4/0-U	1974138-1	2 AWG compact to 4/0 AWG concentric	0.268-0.528 (6.81-13.41)	3.9 (100)	1.22 (31)	1 3/4 (44.4)	4	1/2 (13)	No
ASBS-2-4/0/250-350-U	2182352-1	Side #1: 2 AWG compact to 4/0 AWG concentric Side #2: 250 compact to 350 kcmil concentric	Side #1: 0.268-0.528 (6.81-13.41) Side #2: 0.520-0.681 (13.21-17.30)	3.9 (100)	1.22 (31)	1 3/4 (44.4)	4	1/2 (13)	No
ASBS-250-350-U	1974139-1	250 compact to 350 kcmil concentric	0.520-0.681 (13.21-17.30)	3.9 (100)	1.22 (31)	1 3/4 (44.4)	4	1/2 (13)	No
ASBR-250-350/350-500-U	2182769-1	Side #1: 250 compact to 350 kcmil concentric Side #2: 350 compact to 500 kcmil concentric	Side #1: 0.520-0.681 (13.21-17.30) Side #2: 0.616-0.813 (15.65-20.65)	5.4 (138)	1.3 (33) / 1.67 (42.5)	1.87 (47.5) / 3.2 (82.5)	5	1/2 (13)	No
ASBR-250-350/600-750-U	2182770-1	Side #1: 250 compact to 350 kcmil concentric Side #2: 600 kcmil compact to 750 kcmil concentric	Side #1: 0.520-0.681 (13.21-17.30) Side #2: 0.813-0.998 (20.65-25.35)	5.4 (138)	1.3 (33) / 1.67 (42.5)	1.87 (47.5) / 3 1/8 (80)	5	1/2 (13)	No
ASBS-350-500-U	1974144-1	350 compact to 500 kcmil concentric	0.616-0.813 (15.65-20.65)	6.7 (170)	1.67 (42.5)	3 1/8 (80)	6	1/2 (13)	Yes**
ASBR-350-500/ 600-750-U	1974146-1	Side #1: 350 kcmil compact to 500 kcmil concentric Side #2: 600kcmil compact to 750 kcmil concentric	Side #1: 0.616-0.813 (15.65-20.65) Side #2: 0.813-0.998 (20.65-25.35)	6.7 (170)	1.67 (42.5)	3 1/8 (80)	6	1/2 (13)	Yes**
ASBR-350-500/1000-U	2182732-1	Side #1: 350 kcmil compact to 500 kcmil concentric Side #2: 1000 kcmil compact to 1000 kcmil concentric	Side #1: 0.616-0.813 (15.65-20.65) Side #2: 1.060-1.152 (26.92-29.26)	7.4 (189)	1.67 (42.5) / 1.75 (44.5)	3.25 (82.5) / 3.9 (99)	6	1/2 (13)	Yes**
ASBS-600-750-U	1974145-1	600 kcmil compact to 750 kcmil concentric	0.813-0.998 (20.65-25.35)	6.7 (170)	1.67 (42.5)	3 1/8 (80)	6	1/2 (13)	No
ASBR-600-750/1000-U	2182734-1	Side #1: 600 kcmil compact to 750 kcmil concentric Side #2: 1000 kcmil compact to 1000 kcmil concentric	Side #1: 0.813-0.998 (20.65-25.35) Side #2: 1.060-1.152 (26.92-29.26)	7.4 (189)	1.67 (42.5) / 1.75 (44.5)	3.25 (82.5) / 3.9 (99)	6	1/2 (13)	No
ASBS-1000-U	1974151-1	1000 kcmil compact to 1000 kcmil concentric	1.060-1.152 (26.92-29.26)	8.0 (203)	1.75 (44.5)	3 7/8 (98)	6	1/2 (13)	No

*** DO NOT remove insert. Please contact your TE representative for conductor sizes or types not listed.*

ADDITIONAL PRODUCT INFORMATION
PII: 408-8990, 408
Test Report: 502-47292 (1)

Listed by Underwriters Laboratories Inc., File No. E13288
Certified by Canadian Standards Association, File No. LR7189

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Part number	Conductor Range	O.D. Range	Length	Connector O.D.	Strip Length	Number of Bolts	Socket Size
Aluminum Shear Bolt Splice Connectors for Underground Distribution								
ASBSD-2-1/0-NT	2182666-1	2 AWG solid to 1/0 AWG standard stranded	.268 -.374 (6.6 - 9.5)	2.8 (71)	.95 (24)	1 1/2 (40)	4	3/8 (10)
ASBSD-2-4/0-NT	2182663-1	2 AWG solid to 4/0 AWG standard stranded	.268 -.528 (6.6 - 13.4)	3.3 (83)	.98 (25)	1 1/4 (32)	2	3/8 (10)
ASBSD-4-4/0	2182809-1	4 AWG solid to 4/0 AWG standard stranded (Copper), 2 Solid to 4/0 AWG standard stranded (Aluminum)	CU: .204 -.528 (5.2 - 13.4) AL: .268 -.528 (6.6 - 13.4)	3.3 (83)	.98 (25)	1 1/2 (40)	4	3/8 (10)

Catalog Number	Part number	Conductor Range	O.D. Range	Length	Connector O.D.	Strip Length	Number of Bolts	Socket Size
Aluminum Shear Bolt Splice Connectors Extra Long for Repair Splicing								
ASBS-4-4/0-L9	2427887-1	4 AWG solid to 4/0 AWG standard stranded (Copper), 2 AWG solid to 4/0 AWG standard stranded (Aluminum)	CU: .213 -.528 (5.4 - 13.4) AL: .268 -.528 (6.8 - 13.4)	9.3 (235)	.98 (25)	1 1/2 (40)	4	3/8 (10)
ASBS-2-350-L10	2427890-1	2 AWG solid to 350 kcmil standard stranded	.268 -.681 (6.8 - 17.3)	9.8 (250)	1.22 (31)	1 3/4 (44.4)	4	1/2 (13)
ASBS-350-750-L17	2409507-1	350 kcmil compact to 750 kcmil standard stranded	.616 -.998 (15.6 - 25.3)	17.3 (440)	1.67 (42.5)	3 1/8 (80)	6	1/2 (13)

** -NT connectors are Not Tin Plated and for Aluminum Cable Only*

Copper Shear Bolt Splice Connectors

FEATURES

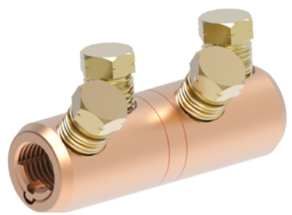
- The connector is supplied with two copper inserts assembled into the connector body to center small conductor sizes. For larger sizes, inserts are not required and are easily removed with a standard screwdriver. Please see the installation table for details.
- An oxide-inhibiting joint compound is factory-applied in the barrel of the connector to provide low initial contact resistance, seal out air and moisture, prevent oxidation/corrosion, and maintain a reliable connection for the life of the installation.
- Copper Shear Bolt connectors have an impermeable oil block for connecting paper-insulated cables.

APPLICATIONS

- The connectors have been electrically tested to the class A requirements of ANSI C119.4 and mechanically rated at a pull out force of 1670 lbs for the #2 AWG to 250 kcmil version; 2300 lbs for the 2/0 AWG to 500 kcmil version; 3000 lbs for the 300 kcmil to 750 kcmil version; 3800 lbs for the 500 kcmil to 1000 kcmil version; 4500 lbs for the 1000 kcmil to 1250 kcmil version, and 6000 lbs for 2000 kcmil version. Engineering Test Reports are available upon request.

BENEFITS

- TE Connectivity's copper Shear Bolt connectors are range-taking, mechanical connectors that will accommodate a wide range of copper cables from #2 AWG compact stranded to 2000 kcmil compact stranded. The primary application is for underground splices up to 35 kV.





INSTALLATION

Copper Shear Bolt connectors use four (six for the CSBS 500-1000) bronze alloy shear head bolts, two (or three) on each side of the center stop. A torque wrench is not required. The only tool required is a standard ratchet wrench with a hexagonal socket. * Refer to the following installation table.

Catalog Number	PII Number*	Socket Size	Test Reports	Application Guide
CSBS-2-250	408-10327	1/2 (13)	502-47407	Remove inserts for cable sizes equal to or greater than 4/0 AWG compressed
CSBS-2/0C-500C	408-8894	11/16 (17)	502-47265	Remove inserts for cable sizes equal to or greater than 300 kcmil compact.
CSBS-2/0-500-CPR	408-10327	11/16 (17)	502-47265	Remove inserts for cable sizes equal to or greater than 350 kcmil compressed.
CSBS-300C-750C	408-8863	3/4 (19)	502-47257 502-47260	Remove inserts for cable sizes equal to or greater than 500 kcmil compact.
CSBS-300-750	408-10327	3/4 (19)	502-47260	Remove inserts for cable sizes equal to or greater than 600 kcmil compressed.
CSBS-500-1000	408-10327	3/4 (19)	502-47386	Remove inserts for cable sizes equal to or greater than 750 kcmil stranded
CSBS-1000-1250	408-10317	3/4 (19)	502-47371 (I)	No insert
CSBS-2000	408-10327	3/4 (19)	502-47474 (I)	No insert

**Installation Instructions Reference Number*
Please contact your TE representative for conductor sizes or types not listed in this catalog.

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Part Number	Conductor Cable Range	O.D. Range	Length	Connector O.D.	Stop
CSBS-2-250	1974136-1	#2 AWG compact to 250 kcmil conc stranded	.268-.575 (6.81-14.61)	3.2 (81)	1.05 (26.7)	Solid
CSBS-2/0C-500C	1099861-1	2/0 compact to 500 kcmil compact	.376-.736 (9.5-18.7)	4 (101)	1.2 (30.5)	Solid
CSBS-2/0-500-CPR	1974127-1	2/0 compact to 500 kcmil compressed	.376-.79 (9.5-20)	4 (101)	1.3 (33)	Solid
CSBS-300C-750C	1099879-1	300 kcmil compact to 750 kcmil compact	.570-.945 (14.5-24.0)	5 (127)	1.45 (36.8)	Solid
CSBS-300-750	1974102-1	300 kcmil compact to 750 kcmil conc strand	.570-.99 (14.5-25.4)	5 (127)	1.5 (38.1)	Solid
CSBS-500-1000	1974111-1	500 kcmil compact to 1000 kcmil conc stranded	.736 - 1.152 (1.87-2.93)	7 (178)	1.75 (44.5)	Solid
CSBS-1000-1250	1974112-1	1000 kcmil compact to 1250 kcmil conc stranded	1.060 -1.289 (26.92-32.74)	7 (178)	1.9 (48)	Solid
CSBS-2000	2182603-1	2000 kcmil compact to 2000 kcmil conc stranded	1.535 - 1.632 (38.99-41.45)	8 (208)	2.3 (58.7)	Solid

Aluminum Shear Bolt Terminal Connectors

FEATURES

- To extend the range of a connector, an aluminum insert maybe assembled into the connector body, which centers the smaller conductor sizes in the barrel of the connector.
- Narrow pad terminals available for 1000 and 1250 kcmil conductor (ASBT-xxx-N)
- Heavy-duty design made of high strength, tin-plated aluminum alloy
- Compact and smooth body design
- Dual rated for aluminum and copper conductors
- The bore of the connector body has a unique grooved surface to enhance electrical contact and minimize resistance at the interface between the terminal and the conductor.
- The cable entry area is chamfered inside to provide easy cable insertion.
- The terminal is manufactured from high conductivity aluminum designed for heavy-duty utility applications.

APPLICATIONS

- The primary application of the ASBT is for power cable terminations, both underground and above ground at voltages up to 69 kV.
- ASBT is ideally suited for making aluminum or copper cable connections to flat bar or equipment pads equipped with 2-hole NEMA spacing

BENEFITS

- TE's Aluminum Shear Bolt Terminals are range-taking mechanical connectors that will accommodate a conductor range from #2 compact stranded to 1250 kcmil stranded, Class B and flexible conductors.
- The connectors have been electrically tested to the class A requirements of ANSI C119.4 and exceed the mechanical requirements of a class 3 connector by a large margin of safety. The existing Aluminum Shear Bolt Splice (ASBS) connector Engineering Test Reports are applicable since the barrel end of the ASBT exactly replicates the design criteria of the ASBS.
- The connector design incorporates shear head bolts, which ensures that the correct torque is applied to each bolt and consequently the optimal contact force is generated to minimize connection resistance.
- The terminal design incorporates shear head bolts, which ensures that the correct torque is applied and consequently the optimal contact force is generated to minimize connection resistance.
- Provides long service life under normal operating conditions with reserve capacity for emergency loading conditions





Wide Application Range	Five connectors needed to accommodate all cable sizes from #2 AWG compact strand to 1,250 kcmil concentric stranded in both aluminum and copper	Reduces inventory and prevents accidental use of the wrong connector
Hexagonal shear head bolts	Installs with simple ratchet-type socket wrench or TE's cordless impact wrench	Installs easily and quickly in confined areas
Impact wrench*	Installs easily and quickly in confined areas	Ease of installation. Installation tool is no longer a source of failure. Reduces tool and die inventory, maintenance and cost
No crimp tooling or dies required	Installs easily using readily available tools	Ease of installation. Installation tool is no longer a source of failure. Reduces tool and die inventory, maintenance and cost
2-hole NEMA pad	Connects conductor ranges to a flat surface (or between any conductor from the range to a flat pad)	Ideal for aluminum or copper cable connections to flat bar or equipment pads equipped with 2-hole NEMA spacing
Torque-controlled shear head bolts	Sheared head gives positive indication of correct installation	Low contact resistance gives superior electrical performance
Knurled inner bore on connector and insert	Unique profile breaks through conductor oxides and grips conductor strands	Generates low contact resistance and increases pullout rating

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Part Number	Terminal Length	O.D.	Number of Bolts	Socket Size	Strip Length	Conductor Range	Conductor O.D. Range
Aluminum Shear Bolt Terminal Connectors								
ASBT-2-350	1099368-1	5.9 (149)	1.22 (31)	2	1/2 (13)	1 3/4 (44) 1/2 (13)	2 AWG Compact to 350 kcmil concentric	.268-.681 (6.8-17.3)
ASBT-350-750	1099369-1	7.4 (188)	1.67 (42.5)	3	1/2 (13)	3 1/8 (79)	350 kcmil Compact to 750 kcmil Concentric	.616-.998 (15.7-25.3)
ASBT-600-1000	1099585-1	7.7 (196)	1.75 (44.4)	3	1/2 (13)	3 3/4 (95)	600 kcmil Compact to 1000 kcmil concentric	.813-1.152 (20.6-29.2)
ASBT-1000-N	2182430-1	7.7 (196)	1.75 (44.4)	3	1/2 (13)	3 3/4 (95)	1000 kcmil compact to 1000 kcmil concentric	1.060-1.152 (26.9-29.3)
ASBT-1250-2	1974133-1	6.96 (176.7)	2.00 (50.8)	3	1/2 (13)	2 7/8 (75)	1000 kcmil compressed to 1250 kcmil concentric	1.06 - 1.250 (26.9 - 31.75)
ASBT-1250-2-N	1974132-1	6.96 (176.7)	2.00 (50.8)	3	1/2 (13)	2 7/8 (75)	1000 kcmil compressed to 1250 kcmil concentric	1.06 - 1.250 (26.9 - 31.75)
ASBT-1250-4	1974134-1	6.96 (176.7)	2.00 (50.8)	3	1/2 (13)	2 7/8 (75)	1000 kcmil compressed to 1250 kcmil concentric	1.06 - 1.250 (26.9 - 31.75)

Catalog Number	Part Number	Terminal Length	O.D.	Noumber of Bolts	Socket Size	Strip Length	Conductor Range	Conductor O.D. Range
Aluminum Shear Bolt Terminal Connectors UL/CSA Listed								
ASBT-2-4/0-U	1974141-1	5.9 (149)	1.22 (31)	2	3/8 (10)	1 3/4 (44)	2 AWG compact to 4/0 kcmil concentric	0.268-0.528 (6.80-13.40)
ASBT-250-350-U	1974142-1	5.9 (149)	1.22 (31)	2	1/2 (13)	1 3/4 (44)	250 kcmil compact to 350 kcmil concentric	0.520-0.681 (13.21-17.30)
ASBT-350-500-U	1974148-1	7.4 (188)	1.67 (42.5)	3	1/2 (13)	3 1/8 (79)	350 kcmil compact to 500 kcmil concentric	0.616-0.813 (15.65-20.65)
ASBT-600-750-U	1974149-1	7.4 (188)	1.67 (42.5)	3	1/2 (13)	3 1/8 (79)	600 kcmil compact to 750 kcmil concentric	0.813-0.998 (20.65-25.35)
ASBT-1000-U	1974153-1	7.7 (196)	1.75 (44.4)	3	1/2 (13)	3 3/4 (95)	1000 kcmil compact to 1000 kcmil concentric	1.060-1.152 (26.92-29.26)

ADDITIONAL PRODUCT INFORMATION
PII: 408-10264, 408-32169
Test Reports:
502-47292 (1)
502-47300 (1)
502-47340 (1)

An oxide-inhibiting joint compound is factory applied in the connector barrel to maintain a reliable connection for the life of the installation. The terminals have been successfully tested to UL 486A-486B and CSA C22.2 No. 65-03. Shear Bolt terminals are designed to be compatible with most TE Raychem cable accessories and insulation products. Please consult your local TE sales representative for applicable products. For other applications, please consult the manufacturer's installation instructions for compatibility.

Please contact your TE representative for conductor sizes or types not listed in this datasheet.
Installation instructions:

Listed by Underwriters Laboratories Inc., File No. E13288
Certified by Canadian Standards Association, File No. LR7189

Shear Bolt Pin Terminals

FEATURES

- Enable transition between aluminum and copper
- Use with cold and heat shrink terminations
- Easy to install
- Metal sealant protects at Al-Cu transition
- Tin-plated protection against corrosion
- Heavy-duty design made of high strength, tin-plated aluminum alloy

APPLICATIONS

- Shear bolt Pin Terminal Connectors are ideal for secondary distribution and overhead applications up to 35 kV.
- Aluminum Shear bolt pin connectors are range-taking mechanical connectors that will accommodate a range of cable sizes from #2 AWG solid to 750 kcmil concentric, stranded Class B.
- Used for terminating solid, compact, compressed, and concentric stranded AAC as well as ACSR conductors.

BENEFITS

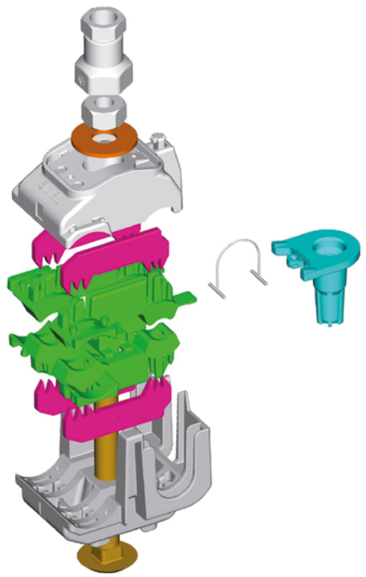
- Reduces inventory and prevents accidental use of the wrong connector
- Installs easily and quickly in confined areas
- Installation tool is no longer a source of failure. Reduces tool and die inventory, maintenance and cost
- Low contact resistance gives superior electrical performance
- Generates low contact resistance and increases pullout rating



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Part Number	Pin		Total Length mm (In.)	Barrel OD mm (In.)	Socket Size mm (In.)	Conductor Range	Conductor Diameter Range mm (In.)	Strip Length mm (In.)
		Diameter mm (In.)	Length mm (In.)						
Shear Pin Terminals									
ASBP-2-4/0-2.5	2182442-4	9.1 (0.360)	64 (2.5)	165 (6.5)	31 (1.22)	13 (1/2)	2 AWG Compact to 4/0 kcmil concentric	6.4 – 13.5 (0.25 – 0.53)	48 (1 7/8)
ASBP-2-4/0-6	2182442-2		152 (6)	254 (10)					
ASBP-2-4/0-9	2182442-3		229 (9)	330 (13)					
ASBP-2-4/0-12	2182442-1		305 (12)	406 (16)					
ASBP-250-350-6	2182445-2	11.7 (0.460)	152 (6)	254 (10)	31 (1.22)	13 (1/2)	250 Kcmil Compact to 350 Kcmil Stranded kcmil concentric	13.2 – 17.5 (0.52 – 0.69)	48 (1 7/8)
ASBP-250-350-9	2182445-3		229 (9)	330 (13)					
ASBP-250-350-12	2182445-1		305 (12)	406 (16)					
ASBP-500-750-6	2182485-2	15.9 (0.625)	152 (6)	295 (11.6)	42.5 (1.67)	13 (1/2)	500 Kcmil Compact to 750 Kcmil Stranded kcmil concentric	18.5 – 25.4 (0.73 – 1.00)	83 (3 1/4)
ASBP-500-750-9	2182485-3		229 (9)	371 (14.6)					
ASBP-500-750-12	2182485-1		305 (12)	448 (17.6)					

Insulation Piercing Connector Systems



All our connectors are designed and tested to fit to majority types of cables made in accordance with the European Standard HD 626, regardless if cables are insulated with XLPE, PE or PVC. The products are tested according to national specifications such as NFC, VDE, BS, ESI and where possible in accordance to CENELEC EN 50483-4.

These standards include tests to verify reliable operation even in the harshest environments:

- Designed for Installation from –20 °C up to +50 °C,
- Operation experience with temperatures ranging from –60 °C up to +60 °C,
- No limitation of mechanical loads for main and branch conductors,
- Shear head forces are adapted to the required contact forces for each application (main, service, lightning),
- Voltage withstand to 6 kV in a 30 cm waterbath,
- No change in contact resistance and temperature after overloads and load cycling,
- Voltage withstand to 6 kV after heavy weathering exposure (UV-light, humidity and temperature cycling),
- Corrosion resistance of metal parts proven in salt fog chamber and wet SO_2 gas chamber.

INSTALLATION PROCESS ENGINEERED FOR LONG-TERM RELIABILITY

Before installation



Connector easily positioned over cables, no loose parts can fall to ground. The correct position of the branch conductor can be felt inside the end cap.

During installation



Contact blades pierce the insulation and reliably contact the conductors. The tightening screw is insulated from the contact blades thus providing maximum safety for the installer even during live line installations.

After shear head breaking



The shear head ensures that conductors are not damaged by too strong forces. The long neck prevents the head from hasty shearing off by naturally applied cantilever loads on the tightening tool. The seals firmly conform to the insulation to prevent any moisture ingress.

Insulation Piercing Connector Systems

FEATURES

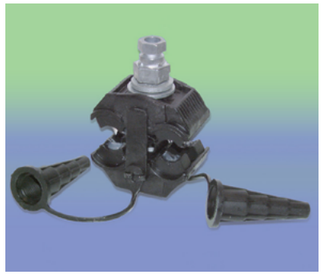
- Quick, reliable, and safe connections on energized conductors (not under load)
- Potential free tightening bolts allow safe installations on life lines
- Exceeds requirements according to NFC 33020 and EN 50483-4
- Components not losable, end cap attached to body.
- Wide conductor range, bare and insulated cables
- Single bolt application with ring washers provide residual contact force
- Torque-control nut for precise pressure on conductor and insulation
- Operating temperature from -40°C to +60°C
- Insulation material made of weather and UV resistant glass fibre reinforced polymer
- Contact plates made of aluminium or copper, bolt made of steel with Geomet (Chromium free) protection

APPLICATIONS

- The waterproof insulation piercing connectors are suitable for majority types of LV ABC conductors as well as connections to service and lighting cable cores.
- When tightening the bolts, the teeth of the contact plates penetrate the insulation and establish a perfect contact. The bolts are tightened until the heads shear off.
- Stipping of insulation is avoided.
- Suitable for aluminum and copper conductors

BENEFITS

- Provides electrical connection for aluminum and copper stranded conductors without stripping and removing insulation from the conductors.
- Establishes electrical contact, protects, and seals the contact interface, and electrically insulates the connection, eliminating the need for weather-proofing and re-insulating.



INSULATION CONNECTOR SYSTEM

SIMULTANEOUS PIERCING OF MAIN AND BRANCH CONDUCTOR

Catalog Number	Part Number	Application range AWG (mm²)		Bolt
		Main	Tap	
For Main to Service Connections				
EP35-13	**E84478-000**	#14 - #2 (2.5 - 35)	#16 - #10 (1.5 - 6)	1 x M6
EP95-13	**D12469-000**	#6 - 4/0 (16 – 95)	#16 - #8 (1.5 – 10)	1 x M6
KZEP-4/0	**908276-000**	#6 - 4/0 (16 – 95)	#16 - #10 (1.5 - 6)	1 x M10
P2X95 Mk2	**CP2398-000**	#6 - 4/0 (16 – 95)	#12 - #2 (4 – 35)	1 x M8
EP120-13	**F45314-000**	#6 - 250 (16 – 120)	#16 - #10 (1.5 - 6)	1 x M8
P2X 150	**C41222-000**	1/0 - 300 (50 - 150)	#10 - #2 (6 – 35)	1 x M8
BR 240-35	**411168-000**	1/0 - 500 (50 - 240)	#10 - #2 (6 – 35)	1 X M13
P2G-300	**708720-000**	1/0 - 600 (50 - 300)	#10 - #2 (6 – 35)	1 X M13
For Main to Main Connectors				
P3X 95	**C44126-000**	#4 - 4/0 (25 - 95)	#4 - 4/0 (25 - 95)	1 x M8
P3X 4/0	**F33734-000**	#4 - 4/0 (25 - 95)	#4 - 4/0 (25 - 95)	1 x 9 / 16
P4X 250	**2395638-1**	#4 - 250 (25 - 120)	#4 - 250 (25 - 120)	2 x M8
P4X 120D	**C63836-000**	#4 - 250 (25 - 120)	#4 - 250 (25 - 120)	2 x M8
P4X 150D	**F24596-000**	1/0 - 300 (50 - 150)	1/0 - 300 (50 - 150)	2 x M8
DR240	**1351097-1**	4/0 - 500 (95 - 240)	4/0 - 500 (95 - 240)	2 x M17

INDEPENDENT CONNECTION OF MAIN (PIERCING) AND BRANCH CONDUCTOR (STRIPPABLE)

Catalog Number	Part Number	Application range AWG (mm²)		Bolt
		Main	Tap	
Main to 2 Service Connections (Bp-piercing tap side, B-Strippable tap side)				
KZ 2 - 150 2B	**296510-000**	#4 - 300 (25 - 150)	2 x #10 - #2 (6 - 35)	1 x M8/2 x M8
KZ 2 - 150 2Bp	**036126-000**	#4 - 300 (25 - 150)	2 x #10 - #2 (6 - 35)	1 x M8/2 x M8
Main to Main Connections (Strippable Tap Side)				
P31F	**CX4230-000**	#2 - 300 (25 - 150)	#2 - 2/0 (35 - 70)	1 x M8/1 x M10

SIMULTANEOUS CONNECTION OF MAIN (BARE) AND BRANCH (INSULATED) CONDUCTOR

Catalog Number	Part Number	Application range AWG (mm²)		Bolt
		Main	Tap	
Main to 2 Service Connections (Bp-piercing tap side, B-Strippable tap side)				
EPB95–13	**2832033-1**	#6 - 4/0 (16 – 95)	#16 - #8 (1.5 – 10)	1 x M6
P2X 95 Mk2*	**CP2398-000**	#6 - 4/0 (16 – 95)	#12 - #2 (4 – 35)	1 x M8
P2B100 U Mk2	**2107864-1**	#10 - 4/0 (8 - 95)	#12 - #2 (4 – 35)	1 x M8

** Connector of type P2X can only be used for connections between aluminium conductors.*

Copper Compression Splices - Standard and Long Barrel

FEATURES

- One piece electrolytic copper construction for superior electrical performance
- Electro tin plated finish for corrosion resistance and durability and tempered for easy crimping
- UL Listed as per UL 486A-486B
- Industry standard color coding system simplifies die selection
- Made out of pure electrolytic copper (>99% Cu)

APPLICATIONS

- Copper compression splices are ideally suited for secondary power distribution in buildings, power plants, electrical equipment, and industrial applications.



BENEFITS

- Uses industry-standard tooling for simple installation
- Chamfered connector end allows cable to be inserted easily
- One-piece, seamless construction from electrolytic tough pitch (ETP) copper for superior electrical performance and mechanical operation

PRODUCT SELECTION INFORMATION:

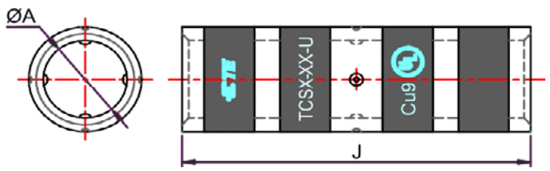
Standard Barrel				
Catalog Number	Conductor AWG/MCM	Dimensions in mm (in)		Color Code
		A Ø	J	
TCSS-8-U	8	4.4 (0.17)	25.4 (1.00)	Red
TCSS-6-U	6	5.0 (0.20)	44.5 (1.75)	Blue
TCSS-4-U	4	6.3 (0.25)	44.5 (1.75)	Gray
TCSS-2-U	2	7.8 (0.31)	50.8 (2.00)	Brown
TCSS-1-U	1	9.0 (0.35)	52.3 (2.06)	Green
TCSS-1/0-U	1/0	9.9 (0.39)	52.8 (2.08)	Pink
TCSS-2/0-U	2/0	11.3 (0.45)	55.1 (2.17)	Black
TCSS-3/0-U	3/0	12.4 (0.49)	58.4 (2.3)	Orange
TCSS-4/0-U	4/0	14.2 (0.56)	58.9 (2.32)	Purple
TCSS-250-U	250	15.1 (0.59)	62.5 (2.46)	Yellow
TCSS-300-U	300	16.5 (0.65)	62.7 (2.47)	White
TCSS-350-U	350	17.8 (0.70)	66.0 (2.60)	Red
TCSS-400-U	400	19.3 (0.76)	69.6 (2.74)	Blue
TCSS-500-U	500	21.1 (0.83)	80.0 (3.15)	Brown
TCSS-600-U	600	23.4 (0.92)	81.8 (3.22)	Green
TCSS-750-U	750	26.2 (1.03)	94.5 (3.72)	Black
TCSS-1000-U	1000	29.7 (1.17)	108.7 (4.28)	White

Long Barrel				
TE Product Code	Conductor AWG/MCM	Dimensions in mm (in)		Color Code
		A Ø	J	
TCSL-8-U	8	4.4 (0.17)	44.5 (1.75)	Red
TCSL-6-U	6	5.0 (0.20)	60.5 (2.38)	Blue
TCSL-4-U	4	6.3 (0.25)	64.8 (2.55)	Gray
TCSL-2-U	2	7.8 (0.31)	71.6 (2.82)	Brown
TCSL-1-U	1	9.0 (0.35)	78.0 (3.07)	Green
TCSL-1/0-U	1/0	9.9 (0.39)	77.7 (3.06)	Pink
TCSL-2/0-U	2/0	11.3 (0.45)	83.8 (3.3)	Black
TCSL-3/0-U	3/0	12.4 (0.49)	83.8 (3.3)	Orange
TCSL-4/0-U	4/0	14.2 (0.56)	90.7 (3.57)	Purple
TCSL-250-U	250	15.1 (0.59)	90.9 (3.58)	Yellow
TCSL-300-U	300	16.5 (0.65)	110.2 (4.34)	White
TCSL-350-U	350	17.8 (0.70)	110.5 (4.35)	Red
TCSL-400-U	400	19.3 (0.76)	117.3 (4.62)	Blue
TCSL-500-U	500	21.1 (0.83)	124.7 (4.91)	Brown
TCSL-600-U	600	23.4 (0.92)	148.6 (5.85)	Green
TCSL-750-U	750	26.2 (1.03)	162.1 (6.38)	Black
TCSL-1000-U	1000	29.7 (1.17)	176.5 (6.95)	White

Long Barrel (Metric conductors)				
Catalog Number	Conductor mm²	Dimensions in mm (in)		Color Code
		A Ø	J	
TCSL-10M-U	10	4.5 (0.18)	22.0 (0.87)	Red
TCSL-16M-U	16	5.4 (0.21)	44.0 (1.73)	Blue
TCSL-25M-U	25	6.8 (0.27)	47.0 (1.85)	Gray
TCSL-35M-U	35	8.2 (0.32)	47.0 (1.85)	Brown
TCSL-50M-U	50	10.0 (0.39)	47.0 (1.85)	Pink
TCSL-70M-U	70	11.3 (0.44)	50.0 (1.97)	Black
TCSL-95M-U	95	13.5 (0.53)	54.0 (2.13)	Orange
TCSL-120M-U	120	15.0 (0.59)	65.0 (2.56)	Purple
TCSL-150M-U	150	16.5 (0.65)	65.0 (2.56)	White
TCSL-185M-U	185	18.5 (0.73)	65.0 (2.56)	Red
TCSL-240M-U	240	21.0 (0.83)	89.0 (3.50)	Brown
TCSL-300M-U	300	23.5 (0.93)	89.0 (3.50)	Green
TCSL-400M-U	400	28.5 (1.12)	90.0 (3.54)	Black
TCSL-500M-U	500	30.0 (1.18)	115.0 (4.53)	White

PHYSICAL & ELECTRICAL PROPERTIES

Material:	ETP copper alloy C11000
Plating:	Electro tin plate
Heat treating:	Soft tempered
Voltage rating:	For applications up to 35 kV
Agency approvals: (when crimped with the approved die sets)	Listed by Underwriters Laboratories, Inc.



Copper One Hole Short Barrel Compression Lugs

FEATURES

- Easy to install with industry standard tooling
- Industry standard color coding system simplifies die selection
- One-piece, seamless construction from electrolytic tough pitch (ETP) copper for superior electrical performance and mechanical operation
- Closed barrel transition design for protection from moisture and contaminants
- Tin-plated for corrosion resistance and durability, and tempered for easy crimping

APPLICATIONS

- Copper compression terminals are ideally suited for secondary power distribution in buildings, power plants, electrical equipment, and industrial applications.



BENEFITS

- Uses industry-standard tooling for simple installation
- Chamfered connector end allows cable to be inserted easily
- One-piece, seamless construction from electrolytic tough pitch (ETP) copper for superior electrical performance and mechanical operation

Copper Compression Lugs with Standard Barrel - One Hole							
Catalog Number	Conductor AWG/MCM	Dimensions inch (mm)					Colour Code
		E (Stud Hole)	A (Barrel ID)	B (Barrel Length)	D (Palm Width)	J (Total Length)	
TCTS-10-1/4-U	10	1/4	0.15 (3.8)	0.39 (10.0)	0.39 (10.0)	1.10 (27.9)	-
TCTS-8-5/16-U	8	5/16	0.17 (4.4)	0.44 (11.2)	0.52 (13.2)	1.38 (35.1)	Red
TCTS-8-1/4-U	8	1/4	0.17 (4.4)	0.44 (11.2)	0.44 (11.2)	1.26 (32.0)	Red
TCTS-8-3/8-U	8	3/8	0.17 (4.4)	0.44 (11.2)	0.58 (14.7)	1.51 (38.4)	Red
TCTS-6-8-10-U	6	8-10	0.20 (5.0)	0.54 (13.7)	0.41 (10.4)	1.18 (30.0)	Blue
TCTS-6-1/4-U	6	1/4	0.20 (5.0)	0.54 (13.7)	0.45 (11.4)	1.18 (30.0)	Blue
TCTS-6-5/16-U	6	5/16	0.20 (5.0)	0.54 (13.7)	0.52 (13.2)	1.30 (33.0)	Blue
TCTS-6-3/8-U	6	3/8	0.20 (5.0)	0.54 (13.7)	0.63 (16.0)	1.30 (33.0)	Blue
TCTS-4-8-10-U	4	8-10	0.25 (6.3)	0.81 (20.6)	0.50 (12.7)	1.58 (40.1)	Gray
TCTS-4-1/4-U	4	1/4	0.25 (6.3)	0.81 (20.6)	0.50 (12.7)	1.74 (44.2)	Gray
TCTS-4-5/16-U	4	5/16	0.25 (6.3)	0.81 (20.6)	0.58 (14.7)	1.92 (48.8)	Gray
TCTS-4-3/8-U	4	3/8	0.25 (6.3)	0.81 (20.6)	0.58 (14.7)	1.92 (48.8)	Gray
TCTS-4-1/2-U	4	1/2	0.25 (6.3)	0.81 (20.6)	0.71 (18.0)	2.20 (55.9)	Gray
TCTS-2-1/4-U	2	1/4	0.31 (7.8)	0.88 (22.4)	0.61 (15.5)	1.90 (48.3)	Brown
TCTS-2-5/16-U	2	5/16	0.31 (7.8)	0.88 (22.4)	0.61 (15.5)	1.90 (48.3)	Brown
TCTS-2-3/8-U	2	3/8	0.31 (7.8)	0.88 (22.4)	0.61 (15.5)	2.06 (52.3)	Brown
TCTS-2-1/2-U	2	1/2	0.31 (7.8)	0.88 (22.4)	0.73 (18.5)	2.32 (58.9)	Brown
TCTS-1-1/4-U	1	1/4	0.35 (9.0)	0.88 (22.4)	0.68 (17.3)	2.30 (58.4)	Green
TCTS-1-5/16-U	1	5/16	0.35 (9.0)	0.88 (22.4)	0.68 (17.3)	1.90 (48.3)	Green
TCTS-1-3/8-U	1	3/8	0.35 (9.0)	0.88 (22.4)	0.68 (17.3)	2.10 (53.3)	Green
TCTS-1-1/2-U	1	1/2	0.35 (9.0)	0.88 (22.4)	0.73 (18.5)	2.37 (60.2)	Green
TCTS-1/0-1/4-U	1/0	1/4	0.39 (9.9)	0.88 (22.4)	0.75 (19.1)	2.00 (50.8)	Pink
TCTS-1/0-5/16-U	1/0	5/16	0.39 (9.9)	0.88 (22.4)	0.75 (19.1)	2.00 (50.8)	Pink
TCTS-1/0-3/8-U	1/0	3/8	0.39 (9.9)	0.88 (22.4)	0.75 (19.1)	2.09 (53.1)	Pink
TCTS-1/0-1/2-U	1/0	1/2	0.39 (9.9)	0.88 (22.4)	0.75 (19.1)	2.34 (59.4)	Pink
TCTS-2/0-1/4-U	2/0	1/4	0.45 (11.3)	0.94 (23.9)	0.82 (20.8)	1.94 (49.3)	Black
TCTS-2/0-5/16-U	2/0	5/16	0.45 (11.3)	0.94 (23.9)	0.62 (15.7)	2.62 (66.5)	Black
TCTS-2/0-3/8-U	2/0	3/8	0.45 (11.3)	0.94 (23.9)	0.82 (20.8)	2.19 (55.6)	Black
TCTS-2/0-1/2-U	2/0	1/2	0.45 (11.3)	0.94 (23.9)	0.82 (20.8)	2.44 (62.0)	Black
TCTS-2/0-3/4-U	2/0	3/4	0.45 (11.3)	0.94 (23.9)	0.96 (24.4)	2.96 (75.2)	Black
TCTS-3/0-5/16-U	3/0	5/16	0.49 (12.4)	1.00 (25.4)	0.91 (23.1)	2.16 (54.9)	Orange
TCTS-3/0-3/8-U	3/0	3/8	0.49 (12.4)	1.00 (25.4)	0.91 (23.1)	2.30 (58.4)	Orange

Copper Compression Lugs with Standard Barrel - One Hole							
Catalog Number	Conductor AWG/MCM	Dimensions inch (mm)					Colour Code
		E (Stud Hole)	A (Barrel ID)	B (Barrel Length)	D (Palm Width)	J (Total Length)	
TCTS-3/0-1/2-U	3/0	1/2	12.4 (0.49)	25.4 (1.00)	23.1 (0.91)	64.5 (2.54)	Orange
TCTS-4/0-1/4-U	4/0	1/4	14.2 (0.56)	22.4 (0.88)	25.4 (1.00)	50.8 (2.00)	Purple
TCTS-4/0-5/16-U	4/0	5/16	14.2 (0.56)	22.4 (0.88)	25.4 (1.00)	55.9 (2.20)	Purple
TCTS-4/0-3/8-U	4/0	3/8	14.2 (0.56)	22.4 (0.88)	25.4 (1.00)	55.9 (2.20)	Purple
TCTS-4/0-1/2-U	4/0	1/2	14.2 (0.56)	22.4 (0.88)	25.4 (1.00)	62.5 (2.46)	Purple
TCTS-4/0-3/4-U	4/0	3/4	14.2 (0.56)	22.4 (0.88)	26.7 (1.05)	55.9 (2.20)	Purple
TCTS-250-1/4-U	250	1/4	15.1 (0.59)	26.9 (1.06)	27.7 (1.09)	55.9 (2.20)	Yellow
TCTS-250-5/16-U	250	5/16	15.1 (0.59)	26.9 (1.06)	27.7 (1.09)	55.9 (2.20)	Yellow
TCTS-250-3/8-U	250	3/8	15.1 (0.59)	26.9 (1.06)	27.7 (1.09)	61.5 (2.42)	Yellow
TCTS-250-1/2-U	250	1/2	15.1 (0.59)	26.9 (1.06)	27.7 (1.09)	67.8 (2.67)	Yellow
TCTS-300-5/16-U	300	5/16	16.5 (0.65)	26.2 (1.03)	30.5 (1.20)	58.4 (2.30)	White
TCTS-300-3/8-U	300	3/8	16.5 (0.65)	26.2 (1.03)	30.5 (1.20)	58.4 (2.30)	White
TCTS-300-1/2-U	300	1/2	16.5 (0.65)	26.2 (1.03)	30.5 (1.20)	68.6 (2.70)	White
TCTS-300-5/8-U	300	5/8	16.5 (0.65)	26.2 (1.03)	30.5 (1.20)	73.7 (2.90)	White
TCTS-300-7/8-U	300	7/8	16.5 (0.65)	26.2 (1.03)	30.5 (1.20)	86.4 (3.40)	White
TCTS-350-3/8-U	350	3/8	17.8 (0.70)	26.9 (1.06)	32.8 (1.29)	63.5 (2.50)	Red
TCTS-350-1/2-U	350	1/2	17.8 (0.70)	32.8 (1.29)	32.8 (1.29)	69.9 (2.75)	Red
TCTS-350-5/8-U	350	5/8	17.8 (0.70)	32.8 (1.29)	32.8 (1.29)	76.2 (3.00)	Red
TCTS-350-7/8-U	350	7/8	17.8 (0.70)	32.8 (1.29)	32.8 (1.29)	101.6 (4.00)	Red
TCTS-400-3/8-U	400	3/8	19.3 (0.76)	30.2 (1.19)	35.1 (1.38)	68.6 (2.70)	Blue
TCTS-400-1/2-U	400	1/2	19.3 (0.76)	30.2 (1.19)	35.6 (1.40)	74.4 (2.93)	Blue
TCTS-400-5/8-U	400	5/8	19.3 (0.76)	30.2 (1.19)	35.1 (1.38)	81.3 (3.20)	Blue
TCTS-400-7/8-U	400	7/8	19.3 (0.76)	30.2 (1.19)	35.6 (1.40)	91.4 (3.60)	Blue
TCTS-500-3/8-U	500	3/8	21.1 (0.83)	32.3 (1.27)	39.1 (1.54)	73.7 (2.90)	Brown
TCTS-500-1/2-U	500	1/2	21.1 (0.83)	32.3 (1.27)	39.1 (1.54)	79.2 (3.12)	Brown
TCTS-500-5/8-U	500	5/8	21.1 (0.83)	32.3 (1.27)	39.1 (1.54)	86.4 (3.40)	Brown
TCTS-500-3/4-U	500	3/4	21.1 (0.83)	32.3 (1.27)	39.1 (1.54)	91.4 (3.60)	Brown
TCTS-500-7/8-U	500	7/8	21.1 (0.83)	32.3 (1.27)	39.1 (1.54)	96.5 (3.80)	Brown
TCTS-600-1/2-U	600	1/2	23.4 (0.92)	35.1 (1.38)	43.4 (1.71)	83.8 (3.30)	Green
TCTS-600-5/8-U	600	5/8	23.4 (0.92)	35.1 (1.38)	43.4 (1.71)	94.0 (3.70)	Green
TCTS-750-1/2-U	750	1/2	26.2 (1.03)	36.1 (1.42)	48.0 (1.89)	86.6 (3.41)	Black
TCTS-750-5/8-U	750	5/8	26.2 (1.03)	36.1 (1.42)	48.0 (1.89)	93.2 (3.67)	Black
TCTS-750-7/8-U	750	7/8	26.2 (1.03)	36.1 (1.42)	48.0 (1.89)	104.1 (4.10)	Black
TCTS-1000-1/2-U	1000	1/2	29.7 (1.17)	41.9 (1.65)	55.6 (2.19)	101.6 (4.00)	White
TCTS-1000-5/8-U	1000	5/8	29.7 (1.17)	41.9 (1.65)	55.6 (2.19)	101.6 (4.00)	White
TCTS-1000-1-U	1000	1.0	29.7 (1.17)	41.9 (1.65)	55.6 (2.19)	120.1 4.73)	White

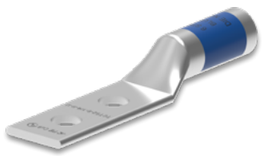
Copper One Hole Short Barrel Compression Lugs - Inspection Hole



Copper Compression Lugs with Standard Barrel - One Hole (with inspection window)							
Catalog Number	Conductor AWG/MCM	Dimensions inch (mm)					Colour Code
		E (Stud Hole)	A (Barrel ID)	B (Barrel Length)	D (Palm Width)	J (Total Length)	
TCTS-10-1/4-IU	10	1/4	0.15 (3.8)	0.39 (10.0)	0.39 (10.0)	1.10 (27.9)	-
TCTS-8-5/16-IU	8	5/16	0.17 (4.4)	0.44 (11.2)	0.52 (13.2)	1.38 (35.1)	Red
TCTS-8-1/4-IU	8	1/4	0.17 (4.4)	0.44 (11.2)	0.44 (11.2)	1.26 (32.0)	Red
TCTS-8-3/8-IU	8	3/8	0.17 (4.4)	0.44 (11.2)	0.58 (14.7)	1.51 (38.4)	Red
TCTS-6-8-10-IU	6	8-10	0.20 (5.0)	0.54 (13.7)	0.41 (10.4)	1.18 (30.0)	Blue
TCTS-6-1/4-IU	6	1/4	0.20 (5.0)	0.54 (13.7)	0.45 (11.4)	1.18 (30.0)	Blue
TCTS-6-5/16-IU	6	5/16	0.20 (5.0)	0.54 (13.7)	0.52 (13.2)	1.30 (33.0)	Blue
TCTS-6-3/8-IU	6	3/8	0.20 (5.0)	0.54 (13.7)	0.63 (16.0)	1.30 (33.0)	Blue
TCTS-4-8-10-IU	4	8-10	0.25 (6.3)	0.81 (20.6)	0.50 (12.7)	1.58 (40.1)	Gray
TCTS-4-1/4-IU	4	1/4	0.25 (6.3)	0.81 (20.6)	0.50 (12.7)	1.74 (44.2)	Gray
TCTS-4-5/16-IU	4	5/16	0.25 (6.3)	0.81 (20.6)	0.58 (14.7)	1.92 (48.8)	Gray
TCTS-4-3/8-IU	4	3/8	0.25 (6.3)	0.81 (20.6)	0.58 (14.7)	1.92 (48.8)	Gray
TCTS-4-1/2-IU	4	1/2	0.25 (6.3)	0.81 (20.6)	0.71 (18.0)	2.20 (55.9)	Gray
TCTS-2-1/4-IU	2	1/4	0.31 (7.8)	0.88 (22.4)	0.61 (15.5)	1.90 (48.3)	Brown
TCTS-2-5/16-IU	2	5/16	0.31 (7.8)	0.88 (22.4)	0.61 (15.5)	1.90 (48.3)	Brown
TCTS-2-3/8-IU	2	3/8	0.31 (7.8)	0.88 (22.4)	0.61 (15.5)	2.06 (52.3)	Brown
TCTS-2-1/2-IU	2	1/2	0.31 (7.8)	0.88 (22.4)	0.73 (18.5)	2.32 (58.9)	Brown
TCTS-1-1/4-IU	1	1/4	0.35 (9.0)	0.88 (22.4)	0.68 (17.3)	2.30 (58.4)	Green
TCTS-1-5/16-IU	1	5/16	0.35 (9.0)	0.88 (22.4)	0.68 (17.3)	1.90 (48.3)	Green
TCTS-1-3/8-IU	1	3/8	0.35 (9.0)	0.88 (22.4)	0.68 (17.3)	2.10 (53.3)	Green
TCTS-1-1/2-IU	1	1/2	0.35 (9.0)	0.88 (22.4)	0.73 (18.5)	2.37 (60.2)	Green
TCTS-1/0-1/4-IU	1/0	1/4	0.39 (9.9)	0.88 (22.4)	0.75 (19.1)	2.00 (50.8)	Pink
TCTS-1/0-5/16-IU	1/0	5/16	0.39 (9.9)	0.88 (22.4)	0.75 (19.1)	2.00 (50.8)	Pink
TCTS-1/0-3/8-IU	1/0	3/8	0.39 (9.9)	0.88 (22.4)	0.75 (19.1)	2.09 (53.1)	Pink
TCTS-1/0-1/2-IU	1/0	1/2	0.39 (9.9)	0.88 (22.4)	0.75 (19.1)	2.34 (59.4)	Pink
TCTS-2/0-1/4-IU	2/0	1/4	0.45 (11.3)	0.94 (23.9)	0.82 (20.8)	1.94 (49.3)	Black
TCTS-2/0-5/16-IU	2/0	5/16	0.45 (11.3)	0.94 (23.9)	0.62 (15.7)	2.62 (66.5)	Black
TCTS-2/0-3/8-IU	2/0	3/8	0.45 (11.3)	0.94 (23.9)	0.82 (20.8)	2.19 (55.6)	Black
TCTS-2/0-1/2-IU	2/0	1/2	0.45 (11.3)	0.94 (23.9)	0.82 (20.8)	2.44 (62.0)	Black
TCTS-2/0-3/4-IU	2/0	3/4	0.45 (11.3)	0.94 (23.9)	0.96 (24.4)	2.96 (75.2)	Black
TCTS-3/0-5/16-IU	3/0	5/16	0.49 (12.4)	1.00 (25.4)	0.91 (23.1)	2.16 54.9)	Orange
TCTS-3/0-3/8-IU	3/0	3/8	0.49 (12.4)	1.00 (25.4)	0.91 (23.1)	2.30 (58.4)	Orange

Copper Compression Lugs with Standard Barrel - One Hole (with inspection window)							
Catalog Number	Conductor AWG/MCM	Dimensions inch (mm)					Colour Code
		E (Stud Hole)	A (Barrel ID)	B (Barrel Length)	D (Palm Width)	J (Total Length)	
TCTS-3/0-1/2-IU	3/0	1/2	12.4 (0.49)	25.4 (1.00)	23.1 (0.91)	64.5 (2.54)	Orange
TCTS-4/0-1/4-IU	4/0	1/4	14.2 (0.56)	22.4 (0.88)	25.4 (1.00)	50.8 (2.00)	Purple
TCTS-4/0-5/16-IU	4/0	5/16	14.2 (0.56)	22.4 (0.88)	25.4 (1.00)	55.9 (2.20)	Purple
TCTS-4/0-3/8-IU	4/0	3/8	14.2 (0.56)	22.4 (0.88)	25.4 (1.00)	55.9 (2.20)	Purple
TCTS-4/0-1/2-IU	4/0	1/2	14.2 (0.56)	22.4 (0.88)	25.4 (1.00)	62.5 (2.46)	Purple
TCTS-4/0-3/4-IU	4/0	3/4	14.2 (0.56)	22.4 (0.88)	26.7 (1.05)	55.9 (2.20)	Purple
TCTS-250-1/4-IU	250	1/4	15.1 (0.59)	26.9 (1.06)	27.7 (1.09)	55.9 (2.20)	Yellow
TCTS-250-5/16-IU	250	5/16	15.1 (0.59)	26.9 (1.06)	27.7 1.09)	55.9 (2.20)	Yellow
TCTS-250-3/8-IU	250	3/8	15.1 (0.59)	26.9 (1.06)	27.7 (1.09)	61.5 (2.42)	Yellow
TCTS-250-1/2-IU	250	1/2	15.1 (0.59)	26.9 (1.06)	27.7 (1.09)	67.8 (2.67)	Yellow
TCTS-300-5/16-IU	300	5/16	16.5 (0.65)	26.2 (1.03)	30.5 (1.20)	58.4 (2.30)	White
TCTS-300-3/8-IU	300	3/8	16.5 (0.65)	26.2 (1.03)	30.5 (1.20)	58.4 (2.30)	White
TCTS-300-1/2-IU	300	1/2	16.5 (0.65)	26.2 (1.03)	30.5 (1.20)	68.6 (2.70)	White
TCTS-300-5/8-IU	300	5/8	16.5 (0.65)	26.2 (1.03)	30.5 (1.20)	73.7 (2.90)	White
TCTS-300-7/8-IU	300	7/8	16.5 (0.65)	26.2 (1.03)	30.5 (1.20)	86.4 (3.40)	White
TCTS-350-3/8-IU	350	3/8	17.8 (0.70)	26.9 (1.06)	32.8 (1.29)	63.5 (2.50)	Red
TCTS-350-1/2-IU	350	1/2	17.8 (0.70)	32.8 (1.29)	32.8 (1.29)	69.9 (2.75)	Red
TCTS-350-5/8-IU	350	5/8	17.8 (0.70)	32.8 (1.29)	32.8 (1.29)	76.2 (3.00)	Red
TCTS-350-7/8-IU	350	7/8	17.8 (0.70)	32.8 (1.29)	32.8 (1.29)	101.6 (4.00)	Red
TCTS-400-3/8-IU	400	3/8	19.3 (0.76)	30.2 (1.19)	35.1 (1.38)	68.6 (2.70)	Blue
TCTS-400-1/2-IU	400	1/2	19.3 (0.76)	30.2 (1.19)	35.6 (1.40)	74.4 (2.93)	Blue
TCTS-400-5/8-IU	400	5/8	19.3 (0.76)	30.2 (1.19)	35.1 (1.38)	81.3 (3.20)	Blue
TCTS-400-7/8-IU	400	7/8	19.3 (0.76)	30.2 (1.19)	35.6 (1.40)	91.4 (3.60)	Blue
TCTS-500-3/8-IU	500	3/8	21.1 (0.83)	32.3 (1.27)	39.1 (1.54)	73.7 (2.90)	Brown
TCTS-500-1/2-IU	500	1/2	21.1 (0.83)	32.3 (1.27)	39.1 (1.54)	79.2 (3.12)	Brown
TCTS-500-5/8-IU	500	5/8	21.1 (0.83)	32.3 (1.27)	39.1 (1.54)	86.4 (3.40)	Brown
TCTS-500-3/4-IU	500	3/4	21.1 (0.83)	32.3 (1.27)	39.1 (1.54)	91.4 (3.60)	Brown
TCTS-500-7/8-IU	500	7/8	21.1 (0.83)	32.3 (1.27)	39.1 (1.54)	96.5 (3.80)	Brown
TCTS-600-1/2-IU	600	1/2	23.4 (0.92)	35.1 (1.38)	43.4 (1.71)	83.8(3.30)	Green
TCTS-600-5/8-IU	600	5/8	23.4 (0.92)	35.1 (1.38)	43.4 (1.71)	94.0 (3.70)	Green
TCTS-750-1/2-IU	750	1/2	26.2 (1.03)	36.1 (1.42)	48.0 (1.89)	86.6 (3.41)	Black
TCTS-750-5/8-IU	750	5/8	26.2 (1.03)	36.1 (1.42)	48.0 (1.89)	93.2 (3.67)	Black
TCTS-750-7/8-IU	750	7/8	26.2(1.03)	36.1 (1.42)	48.0 (1.89)	104.1 (4.10)	Black
TCTS-1000-1/2-IU	1000	1/2	29.7 (1.17)	41.9 (1.65)	55.6 (2.19)	101.6 (4.00)	White
TCTS-1000-5/8-IU	1000	5/8	29.7(1.17)	41.9 (1.65)	55.6 (2.19)	101.6 (4.00)	White
TCTS-1000-1-IU	1000	1.0	29.7 (1.17)	41.9 (1.65)	55.6 (2.19)	120.1 (4.73)	White

Copper Two Hole Short Barrel Lugs



Copper Compression Lugs with Standard Barrel - Two Holes									
Catalog Number	Conductor AWG/MCM	Dimensions inch (mm)							Colour Code
		E (Stud Hole)	Stud Hole Spacing	Type	A (Barrel ID)	B (Barrel Length)	D (Palm Width)	J (Total Length)	
TCTS2-8-10-I-U	8	#10	0.63 (15.9)	I	4.4 (0.17)	11.2 (0.44)	11.2 (0.44)	50.0 (1.97)	Red
TCTS2-8-1/4-I-U	8	1/4	0.63 (15.9)	I	4.4 (0.17)	11.2 (0.44)	11.2 (0.44)	50.0 (1.97)	Red
TCTS2-8-1/4-III-U	8	1/4	1.00 (25.4)	III	4.4 (0.17)	11.2 (0.44)	11.2 (0.44)	61.0 (2.40)	Red
TCTS2-8-1/4-II-U	8	1/4	0.75 (19.1)	II	4.4 (0.17)	11.2 (0.44)	11.2 (0.44)	53.2 (2.09)	Red
TCTS2-8-3/8-III-U	8	3/8	1.00 (25.4)	III	4.4 (0.17)	11.2 (0.44)	14.7 (0.58)	61.0 (2.40)	Red
TCTS2-6-10-I-U	6	#10	0.63 (15.9)	I	5.0 (0.20)	13.7 (0.54)	11.4 (0.45)	54.0 (2.13)	Blue
TCTS2-6-1/4-I-U	6	1/4	0.63 (15.9)	I	5.0 (0.20)	13.7 (0.54)	11.4 (0.45)	54.0 (2.13)	Blue
TCTS2-6-1/4-III-U	6	1/4	1.00 (25.4)	III	5.0 (0.20)	13.7 (0.54)	11.4 (0.45)	64.0 (2.52)	Blue
TCTS2-6-1/4-V-U	6	1/4	0.50 (12.7)	V	5.0 (0.20)	13.7 (0.54)	11.4 (0.45)	51.0 (2.01)	Blue
TCTS2-6-1/4-II-U	6	1/4	0.75 (19.1)	II	5.0 (0.20)	13.7 (0.54)	11.4 (0.45)	57.0 (2.24)	Blue
TCTS2-6-5/16-III-U	6	5/16	1.00 (25.4)	III	5.0 (0.20)	13.7 (0.54)	13.2 (0.52)	68.5 (2.70)	Blue
TCTS2-6-3/8-III-U	6	3/8	1.00 (25.4)	III	5.0 (0.20)	13.7 (0.54)	16.0 (0.63)	68.5 (2.70)	Blue
TCTS2-4-1/4-I-U	4	1/4	0.63 (15.9)	I	6.3 (0.25)	20.6 (0.81)	12.7 (0.50)	62.0 (2.44)	Gray
TCTS2-4-1/4-II-U	4	1/4	0.75 (19.1)	II	6.3 (0.25)	20.6 (0.81)	12.7 (0.50)	65.0 (2.56)	Gray
TCTS2-4-1/4-III-U	4	1/4	1.00 (25.4)	III	6.3 (0.25)	20.6 (0.81)	12.7 (0.50)	71.5 (2.81)	Gray
TCTS2-4-3/8-III-U	4	3/8	1.00 (25.4)	III	6.3 (0.25)	20.6 (0.81)	14.7 (0.58)	76.0 (2.99)	Gray
TCTS2-2-1/4-I-U	2	1/4	0.63 (15.9)	I	7.8 (0.31)	22.4 (0.88)	15.5 (0.61)	69.0 (2.72)	Brown
TCTS2-2-1/4-II-U	2	1/4	0.75 (19.1)	II	7.8 (0.31)	22.4 (0.88)	15.5 (0.61)	73.0 (2.87)	Brown
TCTS2-2-1/4-III-U	2	1/4	1.00 (25.4)	III	7.8 (0.31)	22.4 (0.88)	15.5 (0.61)	80.0 (3.15)	Brown
TCTS2-2-5/16-II-U	2	5/16	0.75 (19.1)	II	7.8 (0.31)	22.4 (0.88)	15.5 (0.61)	74.0 (2.91)	Brown
TCTS2-2-5/16-III-U	2	5/16	1.00 (25.4)	III	7.8 (0.31)	22.4 (0.88)	15.5 (0.61)	80.0 (3.15)	Brown
TCTS2-2-3/8-III-U	2	3/8	1.00 (25.4)	III	7.8 (0.31)	22.4 (0.88)	15.5 (0.61)	80.0 (3.15)	Brown
TCTS2-2-1/2-IV-U	2	1/2	0.75 (19.1)	IV	7.8 (0.31)	22.4 (0.88)	18.5 (0.73)	100.0 (3.94)	Brown
TCTS2-1-1/4-I-U	1	1/4	0.63 (15.9)	I	9.0 (0.35)	22.4 (0.88)	17.3 (0.68)	83.0 (3.27)	Green
TCTS2-1-1/4-II-U	1	1/4	0.75 (19.1)	II	9.0 (0.35)	22.4 (0.88)	17.3 (0.68)	85.0 (3.35)	Green
TCTS2-1-5/16-VI-U	1	5/16	0.87 (22.2)	VI	9.0 (0.35)	22.4 (0.88)	17.3 (0.68)	89.0 (3.50)	Green
TCTS2-1-3/8-III-U	1	3/8	1.00 (25.4)	III	9.0 (0.35)	22.4 (0.88)	17.3 (0.68)	91.0 (3.58)	Green
TCTS2-1-1/2-IV-U	1	1/2	0.75 (19.1)	IV	9.0 0.35)	22.4 (0.88)	18.5 (0.73)	11.0 (4.37)	Green
TCTS2-1/0-1/4-I-U	1/0	1/4	0.63 (15.9)	I	9.9 (0.39)	22.4 (0.88)	19.1 (0.75)	82.0 (3.23)	Pink
TCTS2-1/0-1/4-II-U	1/0	1/4	0.75 (19.1)	II	9.9 (0.39)	22.4 (0.88)	19.1 (0.75)	85.5 (3.37)	Pink

Copper Compression Lugs with Standard Barrel - Two Holes									
Catalog Number	Conductor AWG/MCM	Dimensions inch (mm)							Colour Code
		E (Stud Hole)	Stud Hole Spacing	Type	A (Barrel ID)	B (Barrel Length)	D (Palm Width)	J (Total Length)	
TCTS2-1/0-5/16-VI-U	1/0	5/16	0.87 (22.2)	VI	9.9 (0.39)	22.4 (0.88)	19.1 (0.75)	88.5 (3.48)	Pink
TCTS2-1/0-3/8-III-U	1/0	3/8	1.00 (25.4)	III	9.9 (0.39)	22.4 (0.88)	19.1 (0.75)	91.5 (3.6)	Pink
TCTS2-1/0-1/2-IV-U	1/0	1/2	0.75 (19.1)	IV	9.9 (0.39)	22.4 (0.88)	19.1 (0.75)	110.5 (4.35)	Pink
TCTS2-2/0-1/4-I-U	2/0	1/4	0.63 (15.9)	I	11.3 (0.45)	23.9 (0.94)	20.8 (0.82)	85.0 (3.35)	Black
TCTS2-2/0-1/4-II-U	2/0	1/4	0.75 (19.1)	II	11.3 (0.45)	23.9 (0.94)	20.8 (0.82)	88.0 (3.46)	Black
TCTS2-2/0-5/16-VI-U	2/0	5/16	0.87 (22.2)	VI	11.3 (0.45)	23.9 (0.94)	15.7 (0.62)	91.0 (3.58)	Black
TCTS2-2/0-3/8-III-U	2/0	3/8	1.00 (25.4)	III	11.3 (0.45)	23.9 (0.94)	20.8 (0.82)	94.0 (3.7)	Black
TCTS2-2/0-1/2-IV-U	2/0	1/2	1.75 (44.5)	IV	11.3 (0.45)	23.9 (0.94)	20.8 (0.82)	113.2 (4.46)	Black
TCTS2-3/0-1/4-II-U	3/0	1/4	0.75 (19.1)	II	12.4 (0.49)	25.4 (1.00)	23.1 (0.91)	91.2 (3.59)	Orange
TCTS2-3/0-5/16-III-U	3/0	5/16	1.00 (25.4)	III	12.4 (0.49)	25.4 (1.00)	23.1 (0.91)	97.5 3.84)	Orange
TCTS2-3/0-3/8-III-U	3/0	3/8	1.00 (25.4)	III	12.4 (0.49)	25.4 (1.00)	23.1 (0.91)	97.5 (3.84)	Orange
TCTS2-3/0-1/2-IV-U	3/0	1/2	1.75 (44.5)	IV	12.4 (0.49)	25.4 (1.00)	23.1 (0.91)	116.7 (4.59)	Orange
TCTS2-4/0-1/4-II-U	4/0	1/4	0.75 (19.1)	II	14.2 (0.56)	22.4 (0.88)	25.4 (1.00)	89.0 (3.5)	Purple
TCTS2-4/0-1/4-III-U	4/0	1/4	1.00 (25.4)	III	14.2 (0.56)	22.4 (0.88)	25.4 (1.00)	95.5 (3.76)	Purple
TCTS2-4/0-3/8-III-U	4/0	3/8	1.00 (25.4)	III	14.2 (0.56)	22.4 (0.88)	25.4 (1.00)	95.5 (3.76)	Purple
TCTS2-4/0-1/2-IV-U	4/0	1/2	1.75 (44.5)	IV	14.2 (0.56)	22.4 (0.88)	25.4 (1.00)	115.0 (4.53)	Purple
TCTS2-250-3/8-III-U	250	3/8	1.00 (25.4)	III	15.1 (0.59)	26.9 (1.06)	27.7(1.09)	102.0 (4.02)	Yellow
TCTS2-250-1/2-IV-U	250	1/2	1.75 (44.5)	IV	15.1 (0.59)	26.9 (1.06)	27.7 (1.09)	121.0 (4.76)	Yellow
TCTS2-300-3/8-III-U	300	3/8	1.00 (25.4)	III	16.5 (0.65)	26.2 (1.03)	30.5 (1.20)	102.0 (4.02)	White
TCTS2-300-1/2-IV-U	300	1/2	1.75 (44.5)	IV	16.5 (0.65)	26.2 (1.03)	30.5 (1.20)	121.0 (4.76)	White
TCTS2-350-1/4-II-U	350	1/4	0.75 (19.1)	II	17.8 (0.7)	26.9 (1.06)	32.8 (1.29)	95.0 (3.74)	Red
TCTS2-350-3/8-III-U	350	3/8	1.00 (25.4)	III	17.8 (0.7)	26.9 (1.06)	32.8 (1.29)	102.0 (4.02)	Red
TCTS2-350-1/2-VII-U	350	1/2	1.25(31.8)	VII	17.8 (0.7)	32.8 (1.29)	32.8 (1.29)	115.0 (4.53)	Red
TCTS2-350-1/2-IV-U	350	1/2	1.75 (44.5)	IV	17.8 (0.7)	32.8 (1.29)	32.8 (1.29)	128.0 (5.04)	Red
TCTS2-400-3/8-III-U	400	3/8	1.00 (25.4)	III	19.3 (0.76)	30.2 (1.19)	35.1 (1.38)	108.0 (4.25)	Blue
TCTS2-400-1/2-IV-U	400	1/2	1.75 (44.5)	IV	19.3 (0.76)	30.2 (1.19)	35.6 (1.40)	128.0 (5.04)	Blue
TCTS2-500-1/4-II-U	500	1/4	0.75 (19.1)	II	21.1 (0.83)	32.3 (1.27)	39.1 (1.54)	102.0 (4.02)	Brown
TCTS2-500-3/8-III-U	500	3/8	1.00 (25.4)	III	21.1 (0.83)	32.3 (1.27)	39.1 (1.54)	110.0 (4.33)	Brown
TCTS2-500-1/2-IV-U	500	1/2	1.75 (44.5)	IV	21.1 (0.83)	32.3 (1.27)	39.1 (1.54)	129.0 (5.08)	Brown
TCTS2-600-3/8-III-U	600	3/8	1.00 (25.4)	III	23.4 (0.92)	35.1 (1.38)	43.4 (1.71)	117.0 (4.61)	Green
TCTS2-600-1/2-IV-U	600	1/2	1.75 (44.5)	IV	23.4 (0.92)	35.1 (1.38)	43.4 (1.71)	135.0 (5.31)	Green
TCTS2-750-3/8-III-U	750	3/8	1.00 (25.4)	III	26.2 (1.03)	36.1 (1.42)	48.0 (1.89)	118.0 (4.65)	Black
TCTS2-750-1/2-IV-U	750	1/2	1.75 (44.5)	IV	26.2 (1.03)	36.1 (1.42)	48.0 (1.89)	137.0 (5.39)	Black
TCTS2-1000-1/2-VII-U	1000	1/2	1.25 (31.8)	VII	29.7 (1.17)	41.9 (1.65)	55.6 (2.19)	133.0 (5.24)	White
TCTS2-1000-1/2-IV-U	1000	1/2	1.75 (44.5)	IV	29.7 (1.17)	41.9 (1.65)	55.6 (2.19)	147.0 (5.79)	White

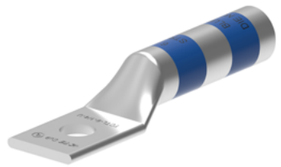
Copper Two Hole Short Barrel Compression Lugs - Inspection Hole



Copper Compression Lugs With Standard Barrel - Two Holes (With Inspection Window)									
Catalog Number	Conductor AWG/MCM	Dimensions inch (mm)							Colour Code
		E (Stud Hole)	Stud Hole Spacing	Type	A (Barrel ID)	B (Barrel Length)	D (Palm Width)	J (Total Length)	
TCTS2-8-10-I-IU	8	#10	0.63 (15.9)	I	4.4 (0.17)	11.2 (0.44)	11.2 (0.44)	50.0 (1.97)	Red
TCTS2-8-1/4-I-IU	8	1/4	0.63 (15.9)	I	4.4 (0.17)	11.2 (0.44)	11.2 (0.44)	50.0 (1.97)	Red
TCTS2-8-1/4-III-IU	8	1/4	1.00 (25.4)	III	4.4 (0.17)	11.2 (0.44)	11.2 (0.44)	61.0 (2.40)	Red
TCTS2-8-1/4-II-IU	8	1/4	0.75 (19.1)	II	4.4 (0.17)	11.2 (0.44)	11.2 (0.44)	53.2 (2.09)	Red
TCTS2-8-3/8-III-IU	8	3/8	1.00 (25.4)	III	4.4 (0.17)	11.2 (0.44)	14.7 (0.58)	61.0 (2.40)	Red
TCTS2-6-10-I-IU	6	#10	0.63 (15.9)	I	5.0 (0.20)	13.7 (0.54)	11.4 (0.45)	54.0 (2.13)	Blue
TCTS2-6-1/4-I-IU	6	1/4	0.63 (15.9)	I	5.0 (0.20)	13.7 (0.54)	11.4 (0.45)	54.0 (2.13)	Blue
TCTS2-6-1/4-III-IU	6	1/4	1.00 (25.4)	III	5.0 (0.20)	13.7 (0.54)	11.4 (0.45)	64.0 (2.52)	Blue
TCTS2-6-1/4-V-IU	6	1/4	0.50 (12.7)	V	5.0 (0.20)	13.7 (0.54)	11.4 (0.45)	51.0 (2.01)	Blue
TCTS2-6-1/4-II-IU	6	1/4	0.75 (19.1)	II	5.0 (0.20)	13.7 (0.54	11.4 (0.45)	57.0 (2.24)	Blue
TCTS2-6-5/16-III-IU	6	5/16	1.00 (25.4)	III	5.0 (0.20)	13.7 (0.54)	13.2 (0.52)	68.5 (2.70)	Blue
TCTS2-6-3/8-III-IU	6	3/8	1.00 (25.4)	III	5.0 (0.20)	13.7 (0.54)	16.0 (0.63)	68.5 (2.70)	Blue
TCTS2-4-1/4-I-IU	4	1/4	0.63 (15.9)	I	6.3 (0.25)	20.6 (0.81)	12.7 (0.50)	62.0 (2.44)	Gray
TCTS2-4-1/4-II-IU	4	1/4	0.75 (19.1)	II	6.3 (0.25)	20.6 (0.81)	12.7 (0.50)	65.0 (2.56)	Gray
TCTS2-4-1/4-III-IU	4	1/4	1.00 (25.4)	III	6.3 (0.25)	20.6 (0.81)	12.7 (0.50)	71.5 (2.81)	Gray
TCTS2-4-3/8-III-IU	4	3/8	1.00 (25.4)	III	6.3 (0.25)	20.6 (0.81)	14.7 (0.58)	76.0 (2.99)	Gray
TCTS2-2-1/4-I-IU	2	1/4	0.63 (15.9)	I	7.8 (0.31)	22.4 (0.88)	15.5 (0.61)	69.0 (2.72)	Brown
TCTS2-2-1/4-II-IU	2	1/4	0.75 (19.1)	II	7.8 (0.31)	22.4 (0.88)	15.5 (0.61)	73.0 (2.87)	Brown
TCTS2-2-1/4-III-IU	2	1/4	1.00 (25.4)	III	7.8 (0.31)	22.4 (0.88)	15.5 (0.61)	80.0 (3.15)	Brown
TCTS2-2-5/16-II-IU	2	5/16	0.75 (19.1)	II	7.8 (0.31)	22.4 (0.88)	15.5 (0.61)	74.0 (2.91)	Brown
TCTS2-2-5/16-III-IU	2	5/16	1.00 (25.4)	III	7.8 (0.31)	22.4 (0.88)	15.5 (0.61)	80.0 (3.15)	Brown
TCTS2-2-3/8-III-IU	2	3/8	1.00 (25.4)	III	7.8 (0.31)	22.4 (0.88)	15.5 (0.61)	80.0 (3.15)	Brown
TCTS2-2-1/2-IV-IU	2	1/2	0.75 (19.1)	IV	7.8 (0.31)	22.4 (0.88)	18.5 (0.73)	100.0 (3.94)	Brown
TCTS2-1-1/4-I-IU	1	1/4	0.63 (15.9)	I	9.0 (0.35)	22.4 (0.88)	17.3 (0.68)	83.0 (3.27)	Green
TCTS2-1-1/4-II-IU	1	1/4	0.75 (19.1)	II	9.0 (0.35)	22.4 (0.88)	17.3 (0.68)	85.0 (3.35)	Green
TCTS2-1-5/16-VI-IU	1	5/16	0.87 (22.2)	VI	9.0 (0.35)	22.4 (0.88)	17.3 (0.68)	89.0 (3.50)	Green
TCTS2-1-3/8-III-IU	1	3/8	1.00 (25.4)	III	9.0 (0.35)	22.4 (0.88)	17.3 (0.68)	91.0 (3.58)	Green
TCTS2-1-1/2-IV-IU	1	1/2	0.75 (19.1)	IV	9.0 0.35)	22.4 (0.88)	18.5 (0.73)	11.0 (4.37)	Green
TCTS2-1/0-1/4-I-IU	1/0	1/4	0.63 (15.9)	I	9.9 (0.39)	22.4 (0.88)	19.1 (0.75)	82.0 (3.23)	Pink
TCTS2-1/0-1/4-II-IU	1/0	1/4	0.75 (19.1)	II	9.9 (0.39)	22.4 (0.88)	19.1 (0.75)	85.5 (3.37)	Pink

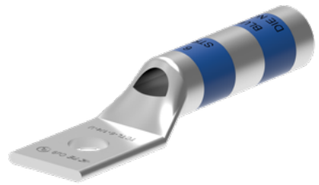
Copper Compression Lugs With Standard Barrel - Two Holes (With Inspection Window)									
Catalog Number	Conductor AWG/MCM	Dimensions inch (mm)							Colour Code
		E (Stud Hole)	Stud Hole Spacing	Type	A (Barrel ID)	B (Barrel Length)	D (Palm Width)	J (Total Length)	
TCTS2-1/0-5/16-VI-IU	1/0	5/16	0.87 (22.2)	VI	9.9 (0.39)	22.4 (0.88)	19.1 (0.75)	88.5 (3.48)	Pink
TCTS2-1/0-3/8-III-IU	1/0	3/8	1.00 (25.4)	III	9.9 (0.39)	22.4 (0.88)	19.1 (0.75)	91.5 (3.6)	Pink
TCTS2-1/0-1/2-IV-IU	1/0	1/2	0.75 (19.1)	IV	9.9 (0.39)	22.4 (0.88)	19.1 (0.75)	110.5 (4.35)	Pink
TCTS2-2/0-1/4-I-IU	2/0	1/4	0.63 (15.9)	I	11.3 (0.45)	23.9 (0.94)	20.8 (0.82)	85.0 (3.35)	Black
TCTS2-2/0-1/4-II-IU	2/0	1/4	0.75 (19.1)	II	11.3 (0.45)	23.9 (0.94)	20.8 (0.82)	88.0 (3.46)	Black
TCTS2-2/0-5/16-VI-IU	2/0	5/16	0.87 (22.2)	VI	11.3 (0.45)	23.9 (0.94)	15.7 (0.62)	91.0 (3.58)	Black
TCTS2-2/0-3/8-III-IU	2/0	3/8	1.00 (25.4)	III	11.3 (0.45)	23.9 (0.94)	20.8 (0.82)	94.0 (3.7)	Black
TCTS2-2/0-1/2-IV-IU	2/0	1/2	1.75 (44.5)	IV	11.3 (0.45)	23.9 (0.94)	20.8 (0.82)	113.2 (4.46)	Black
TCTS2-3/0-1/4-II-IU	3/0	1/4	0.75 (19.1)	II	12.4 (0.49)	25.4 (1.00)	23.1 (0.91)	91.2 (3.59)	Orange
TCTS2-3/0-5/16-III-IU	3/0	5/16	1.00 (25.4)	III	12.4 (0.49)	25.4 (1.00)	23.1 (0.91)	97.5 (3.84)	Orange
TCTS2-3/0-3/8-III-IU	3/0	3/8	1.00 (25.4)	III	12.4 (0.49)	25.4 (1.00)	23.1 (0.91)	97.5 (3.84)	Orange
TCTS2-3/0-1/2-IV-IU	3/0	1/2	1.75 (44.5)	IV	12.4 (0.49)	25.4 (1.00)	23.1 (0.91)	116.7 (4.59)	Orange
TCTS2-4/0-1/4-II-IU	4/0	1/4	0.75 (19.1)	II	14.2 (0.56)	22.4 (0.88)	25.4 (1.00)	89.0 (3.5)	Purple
TCTS2-4/0-1/4-III-IU	4/0	1/4	1.00 (25.4)	III	14.2 (0.56)	22.4 (0.88)	25.4 (1.00)	95.5 (3.76)	Purple
TCTS2-4/0-3/8-III-IU	4/0	3/8	1.00 (25.4)	III	14.2 (0.56)	22.4 (0.88)	25.4 (1.00)	95.5 (3.76)	Purple
TCTS2-4/0-1/2-IV-IU	4/0	1/2	1.75 (44.5)	IV	14.2 (0.56)	22.4 (0.88)	25.4 (1.00)	115.0 (4.53)	Purple
TCTS2-250-3/8-III-IU	250	3/8	1.00 (25.4)	III	15.1 (0.59)	26.9 (1.06)	27.7 (1.09)	102.0 (4.02)	Yellow
TCTS2-250-1/2-IV-IU	250	1/2	1.75 (44.5)	IV	15.1 (0.59)	26.9 (1.06)	27.7 (1.09)	121.0 (4.76)	Yellow
TCTS2-300-3/8-III-IU	300	3/8	1.00 (25.4)	III	16.5 (0.65)	26.2 (1.03)	30.5 (1.20)	102.0 (4.02)	White
TCTS2-300-1/2-IV-IU	300	1/2	1.75 (44.5)	IV	16.5 (0.65)	26.2 (1.03)	30.5 (1.20)	121.0 (4.76)	White
TCTS2-350-1/4-II-IU	350	1/4	0.75 (19.1)	II	17.8 (0.7)	26.9 (1.06)	32.8 (1.29)	95.0 (3.74)	Red
TCTS2-350-3/8-III-IU	350	3/8	1.00 (25.4)	III	17.8 (0.7)	26.9 (1.06)	32.8 (1.29)	102.0 (4.02)	Red
TCTS2-350-1/2-VII-IU	350	1/2	1.25 (31.8)	VII	17.8 (0.7)	32.8 (1.29)	32.8 (1.29)	115.0 (4.53)	Red
TCTS2-350-1/2-IV-IU	350	1/2	1.75 (44.5)	IV	17.8 (0.7)	32.8 (1.29)	32.8 (1.29)	128.0 (5.04)	Red
TCTS2-400-3/8-III-IU	400	3/8	1.00 (25.4)	III	19.3 (0.76)	30.2 (1.19)	35.1 (1.38)	108.0 (4.25)	Blue
TCTS2-400-1/2-IV-IU	400	1/2	1.75 (44.5)	IV	19.3 (0.76)	30.2 (1.19)	35.6 (1.40)	128.0 (5.04)	Blue
TCTS2-500-1/4-II-IU	500	1/4	0.75 (19.1)	II	21.1 (0.83)	32.3 (1.27)	39.1 (1.54)	102.0 (4.02)	Brown
TCTS2-500-3/8-III-IU	500	3/8	1.00 (25.4)	III	21.1 (0.83)	32.3 (1.27)	39.1 (1.54)	110.0 (4.33)	Brown
TCTS2-500-1/2-IV-IU	500	1/2	1.75 (44.5)	IV	21.1 (0.83)	32.3 (1.27)	39.1 (1.54)	129.0 (5.08)	Brown
TCTS2-600-3/8-III-IU	600	3/8	1.00 (25.4)	III	23.4 (0.92)	35.1 (1.38)	43.4 (1.71)	117.0 (4.61)	Green
TCTS2-600-1/2-IV-IU	600	1/2	1.75 (44.5)	IV	23.4 (0.92)	35.1 (1.38)	43.4 (1.71)	135.0 (5.31)	Green
TCTS2-750-3/8-III-IU	750	3/8	1.00 (25.4)	III	26.2 (1.03)	36.1 (1.42)	48.0 (1.89)	118.0 (4.65)	Black
TCTS2-750-1/2-IV-IU	750	1/2	1.75 (44.5)	IV	26.2 (1.03)	36.1 (1.42)	48.0 (1.89)	137.0 (5.39)	Black
TCTS2-1000-1/2-VII-IU	1000	1/2	1.25 (31.8)	VII	29.7 (1.17)	41.9 (1.65)	55.6 (2.19)	133.0 (5.24)	White
TCTS2-1000-1/2-IV-IU	1000	1/2	1.75 (44.5)	IV	29.7 (1.17)	41.9 (1.65)	55.6 (2.19)	147.0 (5.79)	White

Copper One Hole Long Barrel Compression Lugs



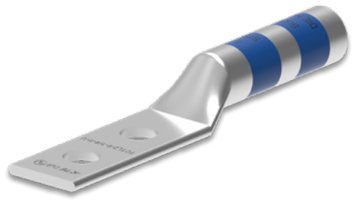
Copper Compression Lugs with Long Barrel - One Hole							Colour Code
Catalog Number	Conductor AWG/MCM	Dimensions inch (mm)					
		E (Stud Hole)	A (Barrel ID)	B (Barrel Length)	D (Palm Width)	J (Total Length)	
TCTL-8-10-U	8	# 10	4.4 (0.20)	20.6 (0.81)	9.7 (0.38)	42.9 (1.69)	Red
TCTL-8-1/4-U	8	1/4	4.4 (0.20)	20.6 (0.81)	10.4 (0.41)	42.9 (1.69)	Red
TCTL-6-10-U	6	#10	5.0 (0.20)	28.4 (1.12)	10.4 (0.41)	48.3 (1.90)	Red
TCTL-6-1/4-U	6	1/4	5.0 (0.20)	28.4 (1.12)	10.4 (0.41)	48.3 (1.90)	Red
TCTL-6-1/2-U	6	1/2	5.0 (0.20)	28.4 (1.12)	21.1 (0.83)	67.1 (2.64)	Red
TCTL-4-10-U	4	# 10	6.3 (0.20)	28.4 (1.12)	12.4 (0.49)	48.3 (1.90)	Blue
TCTL-4-1/4-U	4	1/4	6.3 (0.20)	28.4 (1.12)	12.7 (0.50)	48.5 (1.91)	Blue
TCTL-4-3/8-U	4	3/8	6.3 (0.20)	28.4 (1.12)	14.7 (0.58)	57.2 (2.25)	Blue
TCTL-4-1/2-U	4	1/2	6.3 (0.20)	28.4 (1.12)	21.1 (0.83)	68.3 (2.69)	Blue
TCTL-2-10-U	2	# 10	7.8 (0.30)	31.8 (1.25)	15.5 (0.61)	56.0 (2.20)	Blue
TCTL-2-5/16-U	2	5/16	7.8 (0.30)	31.8 (1.25)	15.5 (0.61)	58.2 (2.29)	Blue
TCTL-2-1/2-U	2	1/2	7.8 (0.30)	31.8 (1.25)	21.1 (0.83)	73.2 (2.88)	Blue
TCTL-1-10-U	1	# 10	9.0 (0.40)	35.1 (1.38)	17.3 (0.68)	78.7 (3.10)	Gray
TCTL-1-5/16-U	1	5/16	9.0 (0.40)	35.1 (1.38)	17.3 (0.68)	78.7 (3.10)	Gray
TCTL-1-1/2-U	1	1/2	9.0 (0.40)	35.1 (1.38)	21.1 (0.83)	77.7 (3.06)	Gray
TCTL-1/0-10-U	1/0	# 10	9.9 (0.40)	35.1 (1.38)	19.1 (0.75)	78.7 (3.10)	Gray
TCTL-1/0-5/16-U	1/0	5/16	9.9 (0.40)	35.1 (1.38)	19.1 (0.75)	78.7 (3.10)	Brown
TCTL-1/0-3/8-U	1/0	3/8	9.9 (0.40)	35.1 (1.38)	19.1 (0.75)	78.7 (3.10)	Brown
TCTL-1/0-1/2-U	1/0	1/2	9.9 (0.40)	35.1 (1.38)	19.1 (0.75)	77.5 (3.05)	Brown
TCTL-2/0-3/8-U	2/0	3/8	11.3 (0.40)	38.1 (1.50)	20.8 (0.82)	81.3 (3.20)	Brown
TCTL-2/0-1/2-U	2/0	1/2	11.3 (0.40)	38.1 (1.50)	20.8 (0.82)	81.5 (3.21)	Brown
TCTL-3/0-3/8-U	3/0	3/8	12.4 (0.50)	38.1 (1.50)	23.1 (0.91)	77.7 (3.06)	Brown
TCTL-3/0-1/2-U	3/0	1/2	12.4 (0.50)	38.1 (1.50)	23.1 (0.91)	77.7 (3.06)	Brown
TCTL-4/0-3/8-U	4/0	3/8	14.2 (0.60)	41.1 (1.62)	25.4 (1.00)	75.7 (2.98)	Green
TCTL-4/0-1/2-U	4/0	1/2	14.2 (0.60)	41.1 (1.62)	25.4 (1.00)	82.0 (3.23)	Green
TCTL-250-1/2-U	250	1/2	15.1 (0.60)	41.1 (1.62)	27.7 (1.09)	82.8 (3.26)	Green
TCTL-300-5/16-U	300	5/16	16.5 (0.60)	50.8 (2.00)	30.5 (1.20)	93.7 (3.69)	Green
TCTL-300-3/8-U	300	3/8	16.5 (0.60)	50.8 (2.00)	30.5 (1.20)	93.7 (3.69)	Green
TCTL-300-1/2-U	300	1/2	16.5 (0.60)	50.8 (2.00)	30.5 (1.20)	93.7 (3.69)	Pink
TCTL-350-3/8-U	350	3/8	17.8 (0.70)	50.8 (2.00)	32.8 (1.29)	94.7 (3.73)	Pink
TCTL-350-1/2-U	350	1/2	17.8 (0.70)	50.8 (2.00)	32.8 (1.29)	94.7 (3.73)	Pink
TCTL-400-3/8-U	400	3/8	19.3 (0.80)	53.8 (2.12)	35.1 (1.38)	104.1 (4.10)	Pink
TCTL-400-1/2-U	400	1/2	19.3 (0.80)	53.8 (2.12)	35.1 (1.38)	104.1 (4.10)	Pink
TCTL-400-5/8-U	400	5/8	19.3 (0.80)	53.8 (2.12)	35.1 (1.38)	104.1 (4.10)	Black
TCTL-500-1/2-U	500	1/2	21.1 (0.80)	57.2 (2.25)	39.1 (1.54)	111.8 (4.40)	Black
TCTL-500-5/8-U	500	5/8	21.1 (0.80)	57.2 (2.25)	39.1 (1.54)	111.8 (4.40)	Black
TCTL-600-1/2-U	600	1/2	23.4 (0.90)	68.3 (2.69)	43.4 (1.71)	122.7 (4.83)	Black
TCTL-600-5/8-U	600	5/8	23.4 (0.90)	68.3 (2.69)	43.4 (1.71)	121.9 (4.80)	Black
TCTL-750-1/2-U	750	1/2	26.2 (1.00)	73.2 (2.88)	48.0 (1.89)	129.8 (5.11)	Orange
TCTL-750-5/8-U	750	5/8	26.2 (1.00)	73.2 (2.88)	48.0 (1.89)	129.5 (5.10)	Orange
TCTL-1000-1/2-U	1000	1/2	29.7 (1.20)	76.2 (3.00)	55.6 (2.19)	137.2 (5.40)	Orange
TCTL-1000-5/8-U	1000	5/8	29.7 (1.20)	76.2 (3.00)	55.6 (2.19)	137.2 (5.40)	Orange

Copper One Hole Long Barrel Compression Lugs - Inspection Hole



Copper Compression Lugs With Long Barrel - One Hole (With Inspection Window)							Colour Code
Catalog Number	Conductor AWG/MCM	Dimensions inch (mm)					
		E (Stud Hole)	A (Barrel ID)	B (Barrel Length)	D (Palm Width)	J (Total Length)	
TCTL-8-10-IU	8	# 10	4.4 (0.20)	20.6 (0.81)	9.7 (0.38)	42.9 (1.69)	Red
TCTL-8-1/4-IU	8	1/4	4.4 (0.20)	20.6 (0.81)	10.4 (0.41)	42.9 (1.69)	Red
TCTL-6-10-IU	6	#10	5.0 (0.20)	28.4 (1.12)	10.4 (0.41)	48.3 (1.90)	Red
TCTL-6-1/4-IU	6	1/4	5.0 (0.20)	28.4 (1.12)	10.4 (0.41)	48.3 (1.90)	Red
TCTL-6-1/2-IU	6	1/2	5.0 (0.20)	28.4 (1.12)	21.1 (0.83)	67.1 (2.64)	Red
TCTL-4-10-IU	4	# 10	6.3 (0.20)	28.4 (1.12)	12.4 (0.49)	48.3 (1.90)	Blue
TCTL-4-1/4-IU	4	1/4	6.3 (0.20)	28.4 (1.12)	12.7 (0.50)	48.5 (1.91)	Blue
TCTL-4-3/8-IU	4	3/8	6.3 (0.20)	28.4 (1.12)	14.7 (0.58)	57.2 (2.25)	Blue
TCTL-4-1/2-IU	4	1/2	6.3 (0.20)	28.4 (1.12)	21.1 (0.83)	68.3 (2.69)	Blue
TCTL-2-10-IU	2	# 10	7.8 (0.30)	31.8 (1.25)	15.5 (0.61)	56.0 (2.20)	Blue
TCTL-2-5/16-IU	2	5/16	7.8 (0.30)	31.8 (1.25)	15.5 (0.61)	58.2 (2.29)	Blue
TCTL-2-1/2-IU	2	1/2	7.8 (0.30)	31.8 (1.25)	21.1 (0.83)	73.2 (2.88)	Blue
TCTL-1-10-IU	1	# 10	9.0 (0.40)	35.1 (1.38)	17.3 (0.68)	78.7 (3.10)	Gray
TCTL-1-5/16-IU	1	5/16	9.0 (0.40)	35.1 (1.38)	17.3 (0.68)	78.7 (3.10)	Gray
TCTL-1-1/2-IU	1	1/2	9.0 (0.40)	35.1 (1.38)	21.1 (0.83)	77.7 (3.06)	Gray
TCTL-1/0-10-IU	1/0	# 10	9.9 (0.40)	35.1 (1.38)	19.1 (0.75)	78.7 (3.10)	Gray
TCTL-1/0-5/16-IU	1/0	5/16	9.9 (0.40)	35.1 (1.38)	19.1 (0.75)	78.7 (3.10)	Brown
TCTL-1/0-3/8-IU	1/0	3/8	9.9 (0.40)	35.1 (1.38)	19.1 (0.75)	78.7(3.10)	Brown
TCTL-1/0-1/2-IU	1/0	1/2	9.9 (0.40)	35.1 (1.38)	19.1 (0.75)	77.5 (3.05)	Brown
TCTL-2/0-3/8-IU	2/0	3/8	11.3 (0.40)	38.1 (1.50)	20.8 (0.82)	81.3 (3.20)	Brown
TCTL-2/0-1/2-IU	2/0	1/2	11.3 (0.40)	38.1 (1.50)	20.8 (0.82)	81.5 (3.21)	Brown
TCTL-3/0-3/8-IU	3/0	3/8	12.4 (0.50)	38.1 (1.50)	23.1 (0.91)	77.7 (3.06)	Brown
TCTL-3/0-1/2-IU	3/0	1/2	12.4 (0.50)	38.1 (1.50)	23.1 (0.91)	77.7 (3.06)	Brown
TCTL-4/0-3/8-IU	4/0	3/8	14.2 (0.60)	41.1 (1.62)	25.4 (1.00)	75.7 (2.98)	Green
TCTL-4/0-1/2-IU	4/0	1/2	14.2 (0.60)	41.1 (1.62)	25.4 (1.00)	82.0 (3.23)	Green
TCTL-250-1/2-IU	250	1/2	15.1 (0.60)	41.1 (1.62)	27.7 (1.09)	82.8(3.26)	Green
TCTL-300-5/16-IU	300	5/16	16.5 (0.60)	50.8 (2.00)	30.5 (1.20)	93.7 (3.69)	Green
TCTL-300-3/8-IU	300	3/8	16.5 (0.60)	50.8 (2.00)	30.5 (1.20)	93.7 (3.69)	Green
TCTL-300-1/2-IU	300	1/2	16.5 (0.60)	50.8 (2.00)	30.5 (1.20)	93.7 (3.69)	Pink
TCTL-350-3/8-IU	350	3/8	17.8 (0.70)	50.8 (2.00)	32.8 (1.29)	94.7 (3.73)	Pink
TCTL-350-1/2-IU	350	1/2	17.8 (0.70)	50.8 (2.00)	32.8 (1.29)	94.7 (3.73)	Pink
TCTL-400-3/8-IU	400	3/8	19.3 (0.80)	53.8 (2.12)	35.1 (1.38)	104.1 (4.10)	Pink
TCTL-400-1/2-IU	400	1/2	19.3 (0.80)	53.8 (2.12)	35.1 (1.38)	104.1 (4.10)	Pink
TCTL-400-5/8-IU	400	5/8	19.3 (0.80)	53.8 (2.12)	35.1 (1.38)	104.1 (4.10)	Black
TCTL-500-1/2-IU	500	1/2	21.1 (0.80)	57.2 (2.25)	39.1 (1.54)	111.8 (4.40)	Black
TCTL-500-5/8-IU	500	5/8	21.1 (0.80)	57.2 (2.25)	39.1 (1.54)	111.8 (4.40)	Black
TCTL-600-1/2-IU	600	1/2	23.4 (0.90)	68.3 (2.69)	43.4 (1.71)	122.7 (4.83)	Black
TCTL-600-5/8-IU	600	5/8	23.4 (0.90)	68.3 (2.69)	43.4 (1.71)	121.9 (4.80)	Black
TCTL-750-1/2-IU	750	1/2	26.2 (1.00)	73.2 (2.88)	48.0 (1.89)	129.8 (5.11)	Orange
TCTL-750-5/8-IU	750	5/8	26.2 (1.00)	73.2 (2.88)	48.0 (1.89)	129.5 (5.10)	Orange
TCTL-1000-1/2-IU	1000	1/2	29.7 (1.20)	76.2 (3.00)	55.6 (2.19)	137.2 (5.40)	Orange
TCTL-1000-5/8-IU	1000	5/8	29.7 (1.20)	76.2 (3.00)	55.6 (2.19)	137.2 (5.40)	Orange

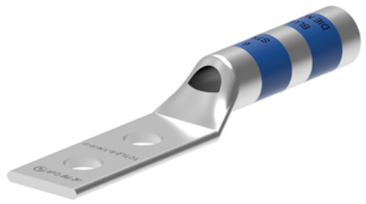
Copper Two Hole Long Barrel Compression Lugs



Copper Compression Lugs with Long Barrel - Two Holes									
Catalog Number	Conductor AWG/MCM	Dimensions inch (mm)							Colour Code
		E (Stud Hole)	Stud Hole Spacing	Type	A (Barrel ID)	B (Barrel Length)	D (Palm Width)	J (Total Length)	
TCTL2-8-1/4-I-U	8	1/4	0.63 (15.9)	I	4.4 (0.17)	20.6 (0.81)	10.7 (0.42)	59.2 (2.33)	Red
TCTL2-8-1/4-II-U	8	1/4	0.75 (19.1)	II	4.4 (0.14)	20.6 (0.81)	10.7 (0.42)	62.2 (2.45)	Red
TCTL2-6-1/4-I-U	6	1/4	0.63 (15.9)	I	5.0 (0.20)	28.4 (1.12)	10.7 (0.42)	67.3 (2.65)	Blue
TCTL2-6-1/4-III-U	6	1/4	1.00 (25.4)	III	5.0 (0.20)	28.4 (1.12)	10.7 (0.42)	77.0 (3.03)	Blue
TCTL2-6-1/2-IV-U	6	1/2	1.75 (44.5)	IV	5.0 (0.20)	28.4 (1.12)	20.6 (0.81)	118.8 (4.40)	Blue
TCTL2-6-3/8-III-U	6	3/8	1.00 (25.4)	III	5.0 (0.20)	28.4 (1.12)	14.5 (0.57)	81.8 (3.22)	Blue
TCTL2-6-3/8-II-U	6	3/8	0.75 (19.1)	II	5.0 (0.20)	28.4 (1.12)	14.5 (0.57)	75.4 (2.97)	Blue
TCTL2-4-1/4-I-U	4	1/4	0.63 (15.9)	I	6.3 (0.25)	28.4 (1.12)	12.7 (0.50)	68.6 (2.70)	Gray
TCTL2-4-1/4-II-U	4	1/4	0.75 (19.1)	II	6.3 (0.25)	28.4 (1.12)	12.7 (0.50)	71.9 (2.83)	Gray
TCTL2-4-3/8-III-U	4	3/8	1.00 (25.4)	III	6.3 (0.25)	28.4 (1.12)	14.2 (0.56)	82.8 (3.26)	Gray
TCTL2-4-1/2-IV-U	4	1/2	1.75 (44.5)	IV	6.3 (0.25)	28.4 (1.12)	20.6 (0.81)	113.0 (4.45)	Gray
TCTL2-2-1/4-I-U	2	1/4	0.63 (15.9)	I	7.8 (0.31)	31.8 (1.25)	15.5 (0.61)	77.5 (3.05)	Brown
TCTL2-2-1/4-II-U	2	1/4	0.75 (19.1)	II	7.8 (0.31)	31.8 (1.25)	15.5 (0.61)	80.5 (3.17)	Brown
TCTL2-2-5/16-II-U	2	5/16	0.75 (19.1)	II	7.8 (0.31)	31.8 (1.25)	15.5 (0.61)	80.5 (3.17)	Brown
TCTL2-2-3/8-IV-U	2	3/8	1.75 (44.5)	IV	7.8 (0.31)	31.8 (1.25)	15.5 (0.61)	105.9 (4.17)	Brown
TCTL2-2-3/8-III-U	2	3/8	1.00 (25.4)	III	7.8 (0.31)	31.8 (1.25)	15.5 (0.61)	86.9 (3.42)	Brown
TCTL2-2-1/2-IV-U	2	1/2	1.75 (44.5)	IV	7.8 (0.31)	31.8 (1.25)	15.5 (0.61)	105.9 (4.17)	Brown
TCTL2-1-1/4-I-U	1	1/4	0.63 (15.9)	I	9.0 (0.35)	35.1 (1.38)	17.3 (0.68)	93.5 (3.68)	Green
TCTL2-1-1/4-II-U	1	1/4	0.75 (19.1)	II	9.0 (0.35)	35.1 (1.38)	17.3 (0.68)	96.5 (3.80)	Green
TCTL2-1-5/16-II-U	1	5/16	0.75 (19.1)	II	9.0 (0.35)	35.1 (1.38)	17.3 (0.68)	96.5 (3.80)	Green
TCTL2-1-3/8-III-U	1	3/8	1.00 (25.4)	III	9.0 (0.35)	35.1 (1.38)	17.3 (0.68)	102.9 (4.05)	Green
TCTL2-1-1/2-IV-U	1	1/2	1.75 (44.5)	IV	9.0 (0.35)	35.1 (1.38)	19.1 (0.75)	122.4 (4.82)	Green
TCTL2-1/0-1/4-I-U	1/0	1/4	0.63 (15.9)	I	9.9 (0.39)	35.1 (1.38)	19.1 (0.75)	91.9 (3.62)	Pink
TCTL2-1/0-1/4-II-U	1/0	1/4	0.75 (19.1)	II	9.9 (0.39)	35.1 (1.38)	19.1 (0.75)	95.3 (3.75)	Pink
TCTL2-1/0-5/16-III-U	1/0	5/16	1.00 (25.4)	III	9.9 (0.39)	35.1 (1.38)	19.1 (0.75)	102.0 (4.02)	Pink
TCTL2-1/0-3/8-III-U	1/0	3/8	1.00 (25.4)	III	9.9 (0.39)	35.1 (1.38)	19.1 (0.75)	102.0 (4.02)	Pink
TCTL2-1/0-3/8-IV-U	1/0	3/8	1.75 (44.5)	IV	9.9 (0.39)	35.1 (1.38)	19.1 (0.75)	121.9 (4.80)	Pink
TCTL2-1/0-1/2-IV-U	1/0	1/2	1.75 (44.5)	IV	9.9 (0.39)	35.1 (1.38)	20.6 (0.81)	122.2 (4.81)	Pink
TCTL2-2/0-1/4-I-U	2/0	1/4	0.63 (15.9)	I	11.3 (0.45)	38.1 (1.50)	20.8 (0.82)	95.3 (3.75)	Black
TCTL2-2/0-1/4-II-U	2/0	1/4	0.75 (19.1)	II	11.3 (0.45)	38.1 (1.50)	20.8 (0.82)	99.1 (3.90)	Black

Copper Compression Lugs with Long Barrel - Two Holes									
Catalog Number	Conductor AWG/MCM	Dimensions inch (mm)							Colour Code
		E (Stud Hole)	Stud Hole Spacing	Type	A (Barrel ID)	B (Barrel Length)	D (Palm Width)	J (Total Length)	
TCTL2-2/0-3/8-III-U	2/0	3/8	1.00 (25.4)	III	11.3 (0.45)	38.1 (1.50)	20.8 (0.82)	105.4 (4.15)	Black
TCTL2-2/0-1/2-IV-U	2/0	1/2	1.75 (44.5)	IV	11.3 (0.45)	38.1 (1.50)	20.8 (0.82)	126.2 (4.97)	Black
TCTL2-3/0-1/4-II-U	3/0	1/4	0.75 (19.1)	II	12.4 (0.49)	38.1 (1.50)	23.1 (0.91)	101.6 (4.00)	Orange
TCTL2-3/0-3/8-III-U	3/0	3/8	1.00 (25.4)	III	12.4 (0.49)	38.1 (1.50)	23.1 (0.91)	108.0 (4.25)	Orange
TCTL2-4/0-1/4-II-U	4/0	1/4	0.75 (19.1)	II	14.2 (0.56)	41.1 (1.62)	25.4 (1.00)	105.4 (4.15)	Purple
TCTL2-4/0-3/8-IV-U	4/0	3/8	1.75 (44.5)	IV	14.2 (0.56)	41.1 (1.62)	25.4 (1.00)	130.8 (5.15)	Purple
TCTL2-4/0-3/8-III-U	4/0	3/8	1.00 (25.4)	III	14.2 (0.56)	41.1 (1.62)	25.4 (1.00)	111.8 (4.40)	Purple
TCTL2-4/0-1/2-IV-U	4/0	1/2	1.75 (44.5)	IV	14.2 (0.56)	41.1 (1.62)	25.4 (1.00)	131.3 (5.17)	Purple
TCTL2-250-3/8-III-U	250	3/8	1.00 (25.4)	III	15.1 (0.59)	41.1 (1.62)	27.7 (1.09)	113.3 (4.46)	Yellow
TCTL2-250-1/2-IV-U	250	1/2	1.75 (44.5)	IV	15.1 (0.59)	41.1 (1.62)	27.7 (1.09)	132.3 (5.21)	Yellow
TCTL2-300-3/8-III-U	300	3/8	1.00 (25.4)	III	16.5 (0.65)	50.8 (2.00)	30.5 (1.20)	124.2 (4.89)	White
TCTL2-300-1/2-IV-U	300	1/2	1.75 (44.5)	IV	16.5 (0.65)	50.8 (2.00)	30.5 (1.20)	143.3 (5.64)	White
TCTL2-350-1/4-II-U	350	1/4	0.75 (19.1)	II	17.8 (0.70)	50.8 (2.00)	32.8 (1.29)	115.6 (4.55)	Red
TCTL2-350-3/8-III-U	350	3/8	1.00 (25.4)	III	17.8 (0.70)	50.8 (2.00)	32.8 (1.29)	123.2 (4.85)	Red
TCTL2-350-1/2-IV-U	350	1/2	1.75 (44.5)	IV	17.8 (0.70)	50.8 (2.00)	32.8 (1.29)	144.3 (5.68)	Red
TCTL2-400-3/8-III-U	400	3/8	1.00 (25.4)	III	19.3 (0.76)	53.8 (2.12)	35.1 (1.38)	127.0 (5.00)	Blue
TCTL2-400-1/2-IV-U	400	1/2	1.75 (44.5)	IV	19.3 (0.76)	53.8 (2.12)	35.1 (1.38)	148.6 (5.85)	Blue
TCTL2-500-1/4-II-U	500	1/4	0.75 (19.1)	II	21.1 (0.83)	57.2 (2.25)	39.1 (1.54)	123.2 (4.85)	Brown
TCTL2-500-3/8-III-U	500	3/8	1.00 (25.4)	III	21.1 (0.83)	57.2 (2.25)	39.1 (1.54)	129.5 (5.10)	Brown
TCTL2-500-1/2-IV-U	500	1/2	1.75 (44.5)	IV	21.1 (0.83)	57.2 (2.25)	39.1 (1.54)	153.9 (6.06)	Brown
TCTL2-600-3/8-III-U	600	3/8	1.00 (25.4)	III	23.4 (0.92)	68.3 (2.69)	43.4 (1.71)	142.0 (5.59)	Green
TCTL2-600-1/2-IV-U	600	1/2	1.75 (44.5)	IV	23.4 (0.92)	68.3 (2.69)	43.4 (1.71)	167.4 (6.59)	Green
TCTL2-750-1/2-IV-U	750	1/2	1.75 (44.5)	IV	26.2 (1.03)	73.2 (2.88)	48.0 (1.89)	174.5 (6.87)	Black
TCTL2-750-3/8-III-U	750	3/8	1.00 (25.4)	III	26.2 (1.03)	73.2 (2.88)	48.0 (1.89)	149.1 (5.87)	Black
TCTL2-1000-1/2-IV-U	1000	1/2	1.75 (44.5)	IV	3.0 (1.17)	76.2 (3.00)	55.6 (2.19)	181.4 (7.14)	White
TCTL2-1000-3/8-III-U	1000	3/8	1.00 (25.4)	III	3.0 (1.17)	76.2 (3.00)	55.6 (2.19)	156.0 (6.14)	White

Copper Two Hole Long Barrel Compression Lugs - Inspection Hole



Copper Compression Lugs With Long Barrel - Two Holes (With Inspection Window)									
Catalog Number	Conductor AWG/MCM	Dimensions inch (mm)							Colour Code
		E (Stud Hole)	Stud Hole Spacing	Type	A (Barrel ID)	B (Barrel Length)	D (Palm Width)	J (Total Length)	
TCTL2-8-1/4-I-IU	8	1/4	0.63 (15.9)	I	4.4 (0.17)	20.6 (0.81)	10.7 (0.42)	59.2 (2.33)	Red
TCTL2-8-1/4-II-IU	8	1/4	0.75 (19.1)	II	4.4 (0.14)	20.6 (0.81)	10.7 (0.42)	62.2 2.45)	Red
TCTL2-6-1/4-I-IU	6	1/4	0.63 (15.9)	I	5.0 (0.20)	28.4 (1.12)	10.7 (0.42)	67.3 (2.65)	Blue
TCTL2-6-1/4-III-IU	6	1/4	1.00 (25.4)	III	5.0 (0.20)	28.4 (1.12)	10.7 (0.42)	77.0 (3.03)	Blue
TCTL2-6-1/2-IV-IU	6	1/2	1.75 (44.5)	IV	5.0 (0.20)	28.4 (1.12)	20.6 (0.81)	118.8 (4.40)	Blue
TCTL2-6-3/8-III-IU	6	3/8	1.00 (25.4)	III	5.0 (0.20)	28.4 (1.12)	14.5 (0.57)	81.8 (3.22)	Blue
TCTL2-6-3/8-II-IU	6	3/8	0.75 (19.1)	II	5.0 (0.20)	28.4 (1.12)	14.5 (0.57)	75.4 (2.97)	Blue
TCTL2-4-1/4-I-IU	4	1/4	0.63 (15.9)	I	6.3 (0.25)	28.4 (1.12)	12.7 (0.50)	68.6 (2.70)	Gray
TCTL2-4-1/4-II-IU	4	1/4	0.75 (19.1)	II	6.3 (0.25)	28.4 (1.12)	12.7 (0.50)	71.9 (2.83)	Gray
TCTL2-4-3/8-III-IU	4	3/8	1.00 (25.4)	III	6.3 (0.25)	28.4 (1.12)	14.2 (0.56)	82.8 (3.26)	Gray
TCTL2-4-1/2-IV-IU	4	1/2	1.75 (44.5)	IV	6.3 (0.25)	28.4 (1.12)	20.6 (0.81)	113.0 (4.45)	Gray
TCTL2-2-1/4-I-IU	2	1/4	0.63 (15.9)	I	7.8 (0.31)	31.8 (1.25)	15.5 (0.61)	77.5 (3.05)	Brown
TCTL2-2-1/4-II-IU	2	1/4	0.75 (19.1)	II	7.8 (0.31)	31.8 (1.25)	15.5 (0.61)	80.5 (3.17)	Brown
TCTL2-2-5/16-II-IU	2	5/16	0.75 (19.1)	II	7.8 (0.31)	31.8 (1.25)	15.5 (0.61)	80.5 (3.17)	Brown
TCTL2-2-3/8-IV-IU	2	3/8	1.75 (44.5)	IV	7.8 (0.31)	31.8 (1.25)	15.5 (0.61)	105.9 (4.17)	Brown
TCTL2-2-3/8-III-IU	2	3/8	1.00 (25.4)	III	7.8 (0.31)	31.8 (1.25)	15.5 (0.61)	86.9 (3.42)	Brown
TCTL2-2-1/2-IV-IU	2	1/2	1.75 (44.5)	IV	7.8 (0.31)	31.8 (1.25)	15.5 (0.61)	105.9 (4.17)	Brown
TCTL2-1-1/4-I-IU	1	1/4	0.63 (15.9)	I	9.0 (0.35)	35.1 (1.38)	17.3 (0.68)	93.5 (3.68)	Green
TCTL2-1-1/4-II-IU	1	1/4	0.75 (19.1)	II	9.0 (0.35)	35.1 (1.38)	17.3 (0.68)	96.5 (3.80)	Green
TCTL2-1-5/16-II-IU	1	5/16	0.75 (19.1)	II	9.0 (0.35)	35.1 (1.38)	17.3 (0.68)	96.5 (3.80)	Green
TCTL2-1-3/8-III-IU	1	3/8	1.00 (25.4)	III	9.0 (0.35)	35.1 (1.38)	17.3 (0.68)	102.9 (4.05)	Green
TCTL2-1-1/2-IV-IU	1	1/2	1.75 (44.5)	IV	9.0 (0.35)	35.1 (1.38)	19.1 (0.75)	122.4 (4.82)	Green
TCTL2-1/0-1/4-I-IU	1/0	1/4	0.63 (15.9)	I	9.9 (0.39)	35.1 (1.38)	19.1 (0.75)	91.9 (3.62)	Pink
TCTL2-1/0-1/4-II-IU	1/0	1/4	0.75 (19.1)	II	9.9 (0.39)	35.1 (1.38)	19.1 (0.75)	95.3 (3.75)	Pink
TCTL2-1/0-5/16-III-IU	1/0	5/16	1.00 (25.4)	III	9.9 (0.39)	35.1 (1.38)	19.1 (0.75)	102.0 (4.02)	Pink
TCTL2-1/0-3/8-III-IU	1/0	3/8	1.00 (25.4)	III	9.9 (0.39)	35.1 (1.38)	19.1 (0.75)	102.0 (4.02)	Pink
TCTL2-1/0-3/8-IV-IU	1/0	3/8	1.75 (44.5)	IV	9.9 (0.39)	35.1 (1.38)	19.1(0.75)	121.9 (4.80)	Pink
TCTL2-1/0-1/2-IV-IU	1/0	1/2	1.75 (44.5)	IV	9.9 (0.39)	35.1 (1.38)	20.6 (0.81)	122.2 (4.81)	Pink
TCTL2-2/0-1/4-I-IU	2/0	1/4	0.63 (15.9)	I	11.3 (0.45)	38.1 (1.50)	20.8(0.82)	95.3(3.75)	Black
TCTL2-2/0-1/4-II-IU	2/0	1/4	0.75 (19.1)	II	11.3 (0.45)	38.1 (1.50)	20.8 (0.82)	99.1(3.90)	Black

Copper Compression Lugs With Long Barrel - Two Holes (With Inspection Window)									
Catalog Number	Conductor AWG/MCM	Dimensions inch (mm)							Colour Code
		E (Stud Hole)	Stud Hole Spacing	Type	A (Barrel ID)	B (Barrel Length)	D (Palm Width)	J (Total Length)	
TCTL2-2/0-3/8-III-IU	2/0	3/8	1.00 (25.4)	III	11.3 (0.45)	38.1 (1.50)	20.8 (0.82)	105.4 (4.15)	Black
TCTL2-2/0-1/2-IV-IU	2/0	1/2	1.75 (44.5)	IV	11.3 (0.45)	38.1 (1.50)	20.8 (0.82)	126.2 (4.97)	Black
TCTL2-3/0-1/4-II-IU	3/0	1/4	0.75 (19.1)	II	12.4 (0.49)	38.1 (1.50)	23.1 (0.91)	101.6 (4.00)	Orange
TCTL2-3/0-3/8-III-IU	3/0	3/8	1.00 (25.4)	III	12.4 (0.49)	38.1 (1.50)	23.1 (0.91)	108.0 (4.25)	Orange
TCTL2-4/0-1/4-II-IU	4/0	1/4	0.75 (19.1)	II	14.2 (0.56)	41.1 (1.62)	25.4 (1.00)	105.4 (4.15)	Purple
TCTL2-4/0-3/8-IV-IU	4/0	3/8	1.75 (44.5)	IV	14.2 (0.56)	41.1 (1.62)	25.4 (1.00)	130.8 (5.15)	Purple
TCTL2-4/0-3/8-III-IU	4/0	3/8	1.00 (25.4)	III	14.2 (0.56)	41.1 (1.62)	25.4 (1.00)	111.8 (4.40)	Purple
TCTL2-4/0-1/2-IV-IU	4/0	1/2	1.75 (44.5)	IV	14.2 (0.56)	41.1 (1.62)	25.4 (1.00)	131.3 (5.17)	Purple
TCTL2-250-3/8-III-IU	250	3/8	1.00 (25.4)	III	15.1 (0.59)	41.1 (1.62)	27.7 (1.09)	113.3 (4.46)	Yellow
TCTL2-250-1/2-IV-IU	250	1/2	1.75 (44.5)	IV	15.1 (0.59)	41.1 (1.62)	27.7 (1.09)	132.3 (5.21)	Yellow
TCTL2-300-3/8-III-IU	300	3/8	1.00 (25.4)	III	16.5 (0.65)	50.8 (2.00)	30.5 (1.20)	124.2 (4.89)	White
TCTL2-300-1/2-IV-IU	300	1/2	1.75 (44.5)	IV	16.5 (0.65)	50.8 (2.00)	30.5 (1.20)	143.3 (5.64)	White
TCTL2-350-1/4-II-IU	350	1/4	0.75 (19.1)	II	17.8 (0.70)	50.8 (2.00)	32.8 (1.29)	115.6 (4.55)	Red
TCTL2-350-3/8-III-IU	350	3/8	1.00 (25.4)	III	17.8 (0.70)	50.8 (2.00)	32.8 (1.29)	123.2 (4.85)	Red
TCTL2-350-1/2-IV-IU	350	1/2	1.75 (44.5)	IV	17.8 (0.70)	50.8 (2.00)	32.8 (1.29)	144.3 (5.68)	Red
TCTL2-400-3/8-III-IU	400	3/8	1.00 (25.4)	III	19.3 (0.76)	53.8 (2.12)	35.1 (1.38)	127.0 (5.00)	Blue
TCTL2-400-1/2-IV-IU	400	1/2	1.75 (44.5)	IV	19.3 (0.76)	53.8 (2.12)	35.1 (1.38)	148.6 (5.85)	Blue
TCTL2-500-1/4-II-IU	500	1/4	0.75 (19.1)	II	21.1 (0.83)	57.2 (2.25)	39.1 (1.54)	123.2 (4.85)	Brown
TCTL2-500-3/8-III-IU	500	3/8	1.00 (25.4)	III	21.1 (0.83)	57.2 (2.25)	39.1 (1.54)	129.5 (5.10)	Brown
TCTL2-500-1/2-IV-IU	500	1/2	1.75 (44.5)	IV	21.1 (0.83)	57.2 (2.25)	39.1 (1.54)	153.9 (6.06)	Brown
TCTL2-600-3/8-III-IU	600	3/8	1.00 (25.4)	III	23.4 (0.92)	68.3 (2.69)	43.4 (1.71)	142.0 (5.59)	Green
TCTL2-600-1/2-IV-IU	600	1/2	1.75 (44.5)	IV	23.4 (0.92)	68.3 (2.69)	43.4 (1.71)	167.4 (6.59)	Green
TCTL2-750-1/2-IV-IU	750	1/2	1.75 (44.5)	IV	26.2 (1.03)	73.2 (2.88)	48.0 (1.89)	174.5 (6.87)	Black
TCTL2-750-3/8-III-IU	750	3/8	1.00 (25.4)	III	26.2 (1.03)	73.2 (2.88)	48.0 (1.89)	149.1 (5.87)	Black
TCTL2-1000-1/2-IV-IU	1000	1/2	1.75 (44.5)	IV	3.0 (1.17)	76.2 (3.00)	55.6 (2.19)	181.4 (7.14)	White
TCTL2-1000-3/8-III-IU	1000	3/8	1.00 (25.4)	III	3.0 (1.17)	76.2 (3.00)	55.6 (2.19)	156.0 (6.14)	White

Aluminum One Hole Long Barrel Compression Lugs

FEATURES

- Easy to install with industry- standard tooling
- Electro tin-plated for electrolytic corrosion resistance and durability
- Industry-standard color- coded caps simplifies die selection
- For 600 V to 35 kV applications
- Suitable with both aluminum and copper conductors
- Barrel end inserted prevents contamination of Oxide- Inhibiting compound

APPLICATIONS

- Aluminum compression connectors are ideally suited for secondary power distribution in buildings, power plants, electrical equipment, and industrial applications



BENEFITS

- Uses industry-standard tooling for simple installation
- Chamfered connector end allows cable to be inserted easily
- Made from high conductivity aluminum

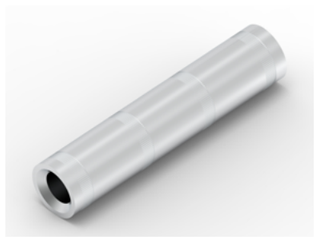
Dual Rated Aluminum Crimp Lugs - 1 Hole							
Catalog Number	Conductor AWG/MCM	Dimensions inch (mm)					
		E (Stud Hole)	A (Internal Dia)	C (Outer Dia)	B (Barrel Length)	D (Palm Width)	J (Total Length)
TATL-6-1/4-U	6 AWG	1/4 (6.8)	0.2 (5.1)	0.35 (8.8)	0.75 (19.1)	0.56 (14.2)	2.28 (57.9)
TATL-6-3/8-U	6 AWG	3/8 (10.2)	0.2 (5.1)	0.35 (8.8)	0.75 (19.1)	0.56 (14.2)	2.28 (57.9)
TATL-6-5/16-U	6 AWG	5/16 (8.4)	0.2 (5.1)	0.35 (8.8)	0.75 (19.1)	0.56 (14.2)	2.28 (57.9)
TATL-4-1/4-U	4 AWG	1/4 (6.8)	0.26 (6.7)	0.47 (11.9)	0.94 (23.8)	0.62 (15.7)	2.3 (58.4)
TATL-4-5/16-U	4 AWG	5/16 (8.4)	0.26 (6.7)	0.47 (11.9)	0.94 (23.8)	0.62 (15.7)	2.3 (58.4)
TATL-2-3/8-U	2 AWG	3/8 (10.2)	0.31 (7.88)	0.53 (13.47)	0.93 (23.63)	0.76 (19.31)	2.62 (66.55)
TATL-2-5/16-U	2 AWG	5/16 (8.4)	0.31 (7.88)	0.53 (13.47)	0.93 (23.63)	0.76 (19.31)	2.62 (66.55)
TATL-2-1/2-U	2 AWG	1/2 (13.2)	0.31 (7.88)	0.53 (13.47)	0.93 (23.63)	0.76 (19.31)	2.62 (66.55)
TATL-1-3/8-U	1 AWG	3/8 (10.2)	0.36 (9.15)	0.53 (13.47)	0.93 (23.63)	0.76 (19.31)	2.62 (66.55)
TATL-1-1/2-U	1 AWG	1/2 (13.2)	0.36 (9.15)	0.53 (13.47)	0.93 (23.63)	0.76 (19.31)	2.62 (66.55)
TATL-1/0-3/8-U	1/0 AWG	3/8 (10.2)	0.42 (10.67)	0.64 (16.26)	1.19 (30.23)	0.89 (22.61)	3.12 (79.25)
TATL-1/0-1/2-U	1/0 AWG	1/2 (13.2)	0.42 (10.67)	0.64 (16.26)	1.19 (30.23)	0.89 (22.61)	3.12 (79.25)
TATL-2/0-1/2-U	2/0 AWG	1/2 (13.2)	0.44 (11.2)	0.69 (17.53)	1.3 (33.02)	0.95 (24.2)	3.19 (81.03)
TATL-2/0-3/8-U	2/0 AWG	3/8 (10.2)	0.44 (11.2)	0.69 (17.53)	1.3 (33.02)	0.95 (24.2)	3.19 (81.03)
TATL-3/0-1/2-U	3/0 AWG	1/2 (13.2)	0.49 (12.45)	0.76 (19.31)	1.5 (38.1)	1.06 (26.93)	3.45 (87.63)
TATL-3/0-3/8-U	3/0 AWG	3/8 (10.2)	0.49 (12.45)	0.76 (19.31)	1.5 (38.1)	1.06 (26.93)	3.45 (87.63)
TATL-4/0-1/2-U	4/0 AWG	1/2 (13.2)	0.54 (13.72)	0.87 (22.1)	1.45 (36.83)	1.19 (30.23)	3.56 (90.43)
TATL-4/0-5/8-U	4/0 AWG	5/8 (16.8)	0.54 (13.72)	0.91 (23.12)	1.45 (36.83)	1.19 (30.23)	3.56 (90.43)
TATL-250-1/2-U	250 MCM	1/2 (13.2)	0.6 (15.24)	0.91 (23.12)	1.56 (39.63)	1.24 (31.50)	3.62 (91.95)
TATL-250-5/8-U	250 MCM	5/8 (16.8)	0.6 (15.24)	0.91 (23.12)	1.6 (40.64)	1.24 (31.50)	3.62 (91.95)
TATL-300-1/2-U	300 MCM	1/2 (13.2)	0.65 (16.51)	1.01 (25.66)	2.19 (55.63)	1.36 (34.55)	4 (101.6)
TATL-300-5/8-U	300 MCM	1/2 (13.2)	0.65 (16.51)	1.01 (25.66)	2.19 (55.63)	1.36 (34.55)	4 (101.6)
TATL-350-1/2-U	350 MCM	1/2 (13.2)	0.73 (18.55)	1.11 (28.2)	2.19 (55.63)	1.49 (37.85)	4.26 (108.21)
TATL-350-5/8-U	350 MCM	5/8 (16.8)	0.73 (18.55)	1.11 (28.2)	2.19 (55.63)	1.49 (37.85)	4.32 (109.73)
TATL-500-1/2-U	500 MCM	1/2 (13.2)	0.85 (21.59)	1.32 (33.53)	2.94 (74.68)	1.73 (43.95)	5.45 (138.43)
TATL-500-5/8-U	500 MCM	5/8 (16.8)	0.85 (21.59)	1.32 (33.53)	2.94 (74.68)	1.73 (43.95)	5.45 (138.43)
TATL-600-1/2-U	600 MCM	1/2 (13.2)	0.93 (23.63)	1.44 (36.58)	3 (76.2)	1.75 (44.45)	5.55 (141.0)
TATL-750-1/2-U	750 MCM	1/2 (13.2)	1.04 (26.42)	1.5 (38.1)	3.32 (84.33)	2.0 (50.80)	6.39 (162.31)
TATL-1000-1/2-U	1000 MCM	1/2 (13.2)	1.19 (30.3)	1.84 (46.8)	4.62 (117.3)	2.44 (62.0)	7.94 (201.6)
TATL-1000-9/16-U	1000 MCM	9/16 (14.7)	1.19 (30.3)	1.84 (46.8)	4.62 (117.3)	2.44 (62.0)	7.94 (201.6)
TATL-1000-5/8-U	1000 MCM	5/8 (16.8)	1.19 (30.3)	1.84 (46.8)	4.62 (117.3)	2.44 (62.0)	7.94 (201.6)
TATL-1000-3/4-U	1000 MCM	3/4 (20.1)	1.19 (30.3)	1.84 (46.8)	4.62 (117.3)	2.44 (62.0)	7.94 (201.6)
TATL-1250-1/2	1250 MCM	1/2 (13.2)	1.33 (33.7)	1.84 (46.8)	4.62 (117.3)	2.60 (66.0)	7.94 (201.6)
TATL-1250-5/8	1250 MCM	5/8 (16.8)	1.33 (33.7)	1.84 (46.8)	4.62 (117.3)	2.60 (66.0)	7.94 (201.6)
TATL-1250-3/4	1250 MCM	3/4 (20.1)	1.33 (33.7)	1.84 (46.8)	4.62 (117.3)	2.60 (66.0)	7.94 (201.6)
TATL-1500-1/2	1500 MCM	1/2 (13.2)	1.5 (38.0)	2.24 (57.0)	4.62 (117.3)	3.07 (78.0)	8.15 (207.0)
TATL-1500-5/8	1500 MCM	5/8 (16.8)	1.5 (38.0)	2.24 (57.0)	4.62 (117.3)	3.07 (78.0)	8.15 (207.0)
TATL-1500-3/4	1500 MCM	3/4 (20.1)	1.5 (38.0)	2.24 (57.0)	4.62 (117.3)	3.07 (78.0)	8.15 (207.0)

Aluminum Two Hole Long Barrel Compression Lugs



Dual Rated Aluminum Crimp Lugs - 2 Hole								
Catalog Number	Conductor AWG/MCM	Dimensions inch (mm)						
		E (Stud Hole)	Centre Distance	A (Internal Dia)	C (Outer Dia)	B (Barrel Length)	D (Palm Width)	J (Total Length)
TATL2-1/0-3/8-U	1/0 AWG	3/8 (10.2)	1.75 (44.5)	0.42 (10.67)	0.64 (16.26)	1.5 (38.1)	0.88 (22.36)	5.28 (134.12)
TATL2-1/0-1/2-U	1/0 AWG	1/2 (13.2)	1.75 (44.5)	0.42 (10.67)	0.64 (16.26)	1.5 (38.1)	0.88 (22.36)	5.28 (134.12)
TATL2-2/0-3/8-U	2/0 AWG	3/8 (10.2)	1.75 (44.5)	0.44 (11.2)	0.69 (17.53)	1.5 (38.1)	0.95 (24.2)	5.5 (139.7)
TATL2-2/0-1/2-U	2/0 AWG	1/2 (13.2)	1.75 (44.5)	0.44 (11.2)	0.69 (17.53)	1.5 (38.1)	0.95 (24.2)	5.5 (139.7)
TATL2-3/0-3/8-U	3/0 AWG	3/8 (10.2)	1.75 (44.5)	0.49 (12.45)	0.76 (19.31)	1.5 (38.1)	1.06 (26.93)	5.5 (139.7)
TATL2-3/0-1/2-U	3/0 AWG	1/2 (13.2)	1.75 (44.5)	0.49 (12.45)	0.76 (19.31)	1.5 (38.1)	1.06 (26.93)	5.5 (139.7)
TATL2-4/0-1/2-U	4/0 AWG	1/2 (13.2)	1.75 (44.5)	0.54 (13.72)	0.87 (22.1)	1.94 (49.28)	1.19 (30.23)	6 (152.4)
TATL2-4/0-5/8-U	4/0 AWG	5/8 (16.8)	1.75 (44.5)	0.54 (13.72)	0.87 (22.1)	1.94 (49.28)	1.19 (30.23)	6 (152.4)
TATL2-250-1/2-U	250 MCM	1/2 (13.2)	1.75 (44.5)	0.6 (15.24)	0.91 (23.12)	1.94 (49.28)	1.25 (31.75)	6 (152.4)
TATL2-250-5/8-U	250 MCM	5/8 (16.8)	1.75 (44.5)	0.6 (15.24)	0.91 (23.12)	1.94 (49.28)	1.25 (31.75)	6 (152.4)
TATL2-300-1/2-U	300 MCM	1/2 (13.2)	1.75 (44.5)	0.65 (16.51)	1.01 (25.66)	2.25 (57.15)	1.38 (35.06)	6.56 (166.63)
TATL2-350-1/2-U	350 MCM	1/2 (13.2)	1.75 (44.5)	0.73 (18.55)	1.11 (28.2)	2.25 (57.15)	1.5 (38.1)	6.56 (166.63)
TATL2-350-5/8-U	350 MCM	5/8 (16.8)	1.75 (44.5)	0.73 (18.55)	1.11 (28.2)	2.25 (57.15)	1.5 (38.1)	6.56 (166.63)
TATL2-500-1/2-U	500 MCM	1/2 (13.2)	1.75 (44.5)	0.85 (21.59)	1.32 (33.53)	3 (76.2)	1.75 (44.45)	7.31 (185.68)
TATL2-500-5/8-U	500 MCM	5/8 (16.8)	1.75 (44.5)	0.85 (21.59)	1.32 (33.53)	3 (76.2)	1.75 (44.45)	7.31 (185.68)
TATL2-600-1/2-U	600 MCM	1/2 (13.2)	1.75 (44.5)	0.93 (23.63)	1.44 (36.58)	3 (76.2)	1.75 (44.45)	7.31 (185.68)
TATL2-750-1/2-U	750 MCM	1/2 (13.2)	1.75 (44.5)	1.04 (26.42)	1.5 (38.1)	3.38 (85.86)	2.0 (50.80)	8.25 (209.55)
TATL2-1000-1/2-U	1000 MCM	1/2 (13.2)	1.75 (44.5)	1.19 (30.3)	1.84 (46.8)	4.62 (117.4)	2.44 (62.0)	9.68 (245.8)
TATL2-1000-9/16-U	1000 MCM	9/16 (14.7)	1.75 (44.5)	1.19 (30.3)	1.84 (46.8)	4.62 (117.4)	2.44 (62.0)	9.68 (245.8)
TATL2-1000-5/8-U	1000 MCM	5/8 (16.8)	1.75 (44.5)	1.19 (30.3)	1.84 (46.8)	4.62 (117.4)	2.44 (62.0)	9.68 (245.8)
TATL2-1000-3/4-U	1000 MCM	3/4 (20.1)	1.75 (44.5)	1.19 (30.3)	1.84 (46.8)	4.62 (117.4)	2.44 (62.0)	9.68 (245.8)
TATL2-1250-1/2	1250 MCM	1/2 (13.2)	1.75 (44.5)	1.33 (30.7)	1.84 (46.8)	4.62 (117.4)	2.6 (66.0)	9.68 (245.8)
TATL2-1250-5/8	1250 MCM	5/8 (16.8)	1.75 (44.5)	1.33 (30.7)	1.84 (46.8)	4.62 (117.4)	2.6 (66.0)	9.68 (245.8)
TATL2-1250-3/4	1250 MCM	3/4 (20.1)	1.75 (44.5)	1.33 (30.7)	1.84 (46.8)	4.62 (117.4)	2.6 (66.0)	9.68 (245.8)
TATL2-1500-1/2	1500 MCM	1/2 (13.2)	1.75 (44.5)	1.5 (38.0)	2.24 (57.0)	4.62 (117.4)	3.07 (78.0)	9.91 (251.7)
TATL2-1500-5/8	1500 MCM	5/8 (16.8)	1.75 (44.5)	1.5 (38.0)	2.24 (57.0)	4.62 (117.4)	3.07 (78.0)	9.91 (251.7)
TATL2-1500-3/4	1500 MCM	3/4 (20.1)	1.75 (44.5)	1.5 (38.0)	2.24 (57.0)	4.62 (117.4)	3.07 (78.0)	9.91 (251.7)

Aluminum Long Barrel Compression Splices



Aluminum Compression Splices				
Catalog Number	Conductor AWG/MCM	Dimensions inch (mm)		
		A (Internal Dia)	C (Outer Dia)	J (Total Length)
TASL-6-U	6 AWG	0.2 (5.1)	0.35 (8.8)	1.62 (41.1)
TASL-4-U	4 AWG	0.26 (6.7)	0.47 (11.9)	2.12 (53.8)
TASL-2-U	2 AWG	0.31 (7.8)	0.53 (13.5)	2 (50.8)
TASL--1-U	1 AWG	0.35 (8.9)	0.53 (13.5)	2 (50.8)
TASL-1/0-U	1/0 AWG	0.41 (10.5)	0.64 (16.3)	2.12 (53.8)
TASL-2/0-U	2/0 AWG	0.44 (11.2)	0.69 (17.5)	2.31 (58.7)
TASL-3/0-U	3/0 AWG	0.48 (12.3)	0.76 (19.3)	2.62 (66.5)
TASL-4/0-U	4/0 AWG	0.54 (13.7)	0.87 (22.2)	2.75 (69.9)
TASL-250-U	250 MCM	0.59 (15.1)	0.91 (23)	2.94 (74.7)
TASL-300-U	300 MCM	0.65 (16.5)	1.01 (25.7)	3.12 (79.2)
TASL-350-U	350 MCM	0.72 (18.3)	1.11 (28.1)	3.38 (85.8)
TASL-500-U	500 MCM	0.84 (21.4)	1.32 (33.5)	3.38 (85.8)
TASL-600-U	600 MCM	0.92 (23.4)	1.44 (36.5)	4.12 (104.6)
TASL-750-U	750 MCM	1.03 (26.2)	1.5 (38.1)	4.68 (118.8)
TASL-1000-U	1000 MCM	1.19 (30.3)	1.84 (46.8)	5.25 (133.4)
TASL-1250	1250 MCM	1.33 (33.7)	1.84 (46.8)	6.21 (157.7)
TASL-1500	1500 MCM	1.5 (38)	2.2 (57.0)	7.1 (180)

Compression Pin Terminals

FEATURES

- Enable transition between aluminum and copper
- Easy to install using industry standard tools and dies
- Tin Plated for protection against corrosion
- Prefilled with oxide inhibitor and capped at factory
- Cold and heat shrink terminations
- Metal sealant protects at Al-Cu transition

APPLICATIONS

- No need for proprietary dies
- Easy to bend and shorten
- Allows for easy identification of proper strip length in field
- Compression pin connectors and cold and heat shrink terminations can be purchased as kit
- Calls out wire range and die type

BENEFITS

- Eliminates investment in additional tooling
- Facilitates dressing of cables into equipment terminals
- Determine the starting point of the first crimp
- Provides complete connector and cable accessory solution in one box
- Minimizes potential for application error



Selection Information

Connector							Cable			
Catalog Number	Pin Length mm (in.)	Total Length mm (in.)	Barrel OD mm (in.)	Pin Diameter mm (in.)	Die Index	Number of Crimps	AAC	ACSR	Conductor Diameter Range mm (in.)	Strip length mm (in.)
SCP-2-2.5 (1-2182448-9)	64 (2.5)	132 (5.2)	16.5 (0.64)	6.5 (0.257)	243 BG 5/8	1	#2 STR- SOL #1 SOL	-	6.8 to 7.3 (0.27 to 0.29)	30 (1.12)
SCP-2-6 (1-2182448-3)	152 (6)	221 (8.7)								
SCP-2-9 (2182448-7)	229 (9)	297 (11.7)								
SCP-2-12 (2182448-1)	305 (12)	373 (14.7)								
SCP-1-2.5 (2-2182448-0)	64 (2.5)	132 (5.2)	16.5 (0.64)	6.5 (0.257)	243 BG 5/8	1	#1 STR - CPT 1/0 CPT - SOL	#2 (6/1) #2 (7/1)	8.0 to 8.5 (0.32 to 0.34)	30 (1.12)
SCP-1-6 (1-2182448-4)	152 (6)	221 (8.7)								
SCP-1-9 (2182448-8)	229 (9)	297 (11.7)								
SCP-1-12 (2182448-2)	305 (12)	373 (14.7)								
SCP-10-2.5 (2-2182448-1)	64 (2.5)	132 (5.2)	16.5 (0.64)	6.5 (0.257)	243 BG 5/8	1	1/0 STR - CMPR 2/0 CPT - SOL	#1 (6/1)	9.1 to 9.6 (0.36 to 0.38)	30 (1.12)
SCP-10-6 (1-2182448-5)	152 (6)	221 (8.7)								
SCP-10-9 (2182448-9)	229 (9)	297 (11.7)								
SCP-10-12 (2182448-3)	305 (12)	373 (14.7)								
SCP-20-6 (1-2182448-6)	152 (6)	244 (9.6)	23 (0.91)	9.3 (0.365)	249 WK840	2	2/0 STR - CMPR 3/0 CPT - SOL	1/0 (6/1)	10.1 to 10.7 (0.40 to 0.42)	55 (2.06)
SCP-20-9 (1-2182448-0)	229 (9)	320 (12.6)								
SCP-20-12 (2182448-4)	305 (12)	396 (15.6)								
SCP-30-6 (1-2182448-7)	152 (6)	244 (9.6)	23 (0.91)	9.3 (0.365)	249 WK840	2	3/0 STR - CMPR 4/0 CPT - SOL	2/0 (6/1)	11.4 to 12.1 (0.45 to 0.48)	55 (2.06)
SCP-30-9 (1-2182448-1)	229 (9)	320 (12.6)								
SCP-30-12 (2182448-5)	305 (12)	396 (15.6)								
SCP-40-6 (1-2182448-8)	152 (6)	244 (9.6)	23 (0.91)	9.3 (0.365)	249 WK840	2	4/0 STR - CMPR	3/0 (6/1)	12.8 to 13.0 (0.50 to 0.53)	55 (2.06)
SCP-40-9 (1-2182448-2)	229 (9)	320 (12.6)								
SCP-40-12 (2182448-6)	305 (12)	396 (15.6)								

Wedge Pressure Technology

FEATURES

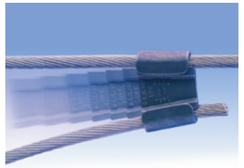
- Developed to overcome the physical and electrical limitations of traditional compression or bolted connectors.
- Designed around an engineering principle that TE calls “Wedge Pressure Technology”.

APPLICATIONS

- Maintains a constant force within the connection for the life of the connector, while compensating for thermal expansion or “creep”

BENEFITS

- Maximizes contact between the connector and conductor surfaces
- Overcomes the problems associated with oxidation of metallic surfaces
- Provides a simple, fool proof method for connector installation



AMPACT Aluminum Tap System

FEATURES

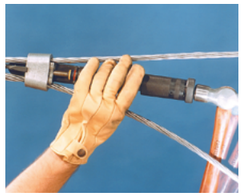
- Installing taps takes a fraction of the time needed for conventional crimp-type connectors
- A locking tab prevents wedge from loosening once it has been driven into position. Every connection may be visually inspected by checking wedge movement and locking tab.
- Taps may be used to connect multiple conductor combinations
- No damage to the conductors when installing or removing tap
- Lightweight, power-actuated tools require minimum operator effort
- “C” and wedge are factory coated with an inhibitor containing abrasive particles to help clean the contact surfaces during installation

APPLICATIONS

- Used to connect solid and stranded aluminum, aluminum alloy and stranded aluminum composite conductors including AAC, AAAC, ACSR, ACAR, AW, ACSR/AW, and ACSS.
- They may also be used in non-corrosive environments to connect copper conductors.

BENEFITS

- The proven AMPACT tap “C-spring” and wedge design provides a stored energy system that prevents connector degradation and achieves significantly lower resistance than any competitive product over the “in service” life of the connector.
- As thermal cycling causes the conductors to expand and contract, the AMPACT tap spring member flexes and maintains constant contact pressure.
- Individual tap packages are imprinted with applicable conductor combinations. Packages and labels are color coded to easily match taps with proper tool and cartridge combination



Listed File No. E13288
RUS: ANSI C119.4
Class AA - Electrical
Class 3 - Mechanical

Conductor Standard Sizes	Size Tap Conductor Applicable
1192.5 kcmil	1192.5 thru 6
1033.5	1033.5 thru 6
795	795 thru 6
556.5	556.5 thru 6
477	477 thru 6
397.5	397.5 thru 6
350	350 thru 6
336.4	336.4 thru 6
266.8	266.8 thru 6
4/0 AWG	4/0 thru 6
3/0	3/0 thru 6
2/0	2/0 thru 6
1/0	1/0 thru 14
2	2 thru 14
4	4 thru 14
6	6 thru 14

AMPACT SELECTION GUIDE

Catalog Number	Wire Combinations
Type II Street Light Taps (White Cartridge P/N 69338-5 separately)	
83653-1	1/0-10-12-14
Type II Taps (White Cartridge P/N 69338-5 separately)	
602283	1/0-2
602283-1	2-2; 1/0-4
602283-2	2-4; 1/0-6
602283-3	4-4; 2-6
602283-4	6-6; 4-6
602283-5	8-8
602283-6	1/0-8
602283-7	2-8
602283-8	6-8; 4-8
Medium Taps (Blue Cartridge P/N 69338-1 separately)	
600403	1/0-1/0; 2/0-2; 1/0-2
600411	2/0-2/0; 3/0-1/0; 4/0-2
600446	3/0-6; 2/0-6
600447	2/0-4; 3/0-4
600448	2/0-1/0; 3/0-2
600455	4/0-4
600456	4/0-6
600458	3/0-2/0; 4/0-1/0
600459	3/0-3/0; 4/0-2/0
600465	4/0-3/0
600466	4/0-4/0
266.8 kcmil Taps (Blue Cartridge P/N 69338-1 separately)	
602046-1	266.86
602046-2	266.8-4
602046-3	266.8-2
602046-4	266.8-1/0
602046-5	266.8-2/0
602046-6	266.8-3/0
602046-7	266.8-4/0
602046-9	266.8-266.8
350 kcmil Taps (Blue Cartridge P/N 69338-1 separately)	
602380	350-6
602380-1	350-4
602380-2	350-2
602380-3	350-1/0
602380-4	350-2/0
602380-5	350-3/0
602380-6	350-4/0
602380-7	350-350
336.4-477-556.5 kcmil Taps (Yellow Cartridge P/N 69338-4 separately)	
602014	336.4-6
602013	336.4-4
602000	336.4-2
602001	336.4-1/0
602002	336.4-2/0
602003	336.4-3/0
602004	336.4-4/0
602006	336.4-266.8
602007	336.4-336.4
602031-8	477.0-2, 3
602031-9	477.0-4, 5
1-602031-0	477.0-6
1-602031-2	556.5-477.0; 556.5
1-602031-3	477.0-477.0; 556.5-336.4
1-602031-4	477.0-336.4; 556.5-266.8
1-602031-5	477.0-266.8; 556.5-3/0; 4/0
1-602031-6	477.0-4/0; 556.5-2/0
1-602031-7	477.0-3/0; 556.5-1/0
1-602031-8	477.0-2/0; 556.5-1
1-602031-9	477.0-1/0; 556.5-2
2-602031-0	556.5-2; 3
2-602031-1	556.5-4; 5
2-602031-2	556.5-6

Catalog Number	Wire Combinations
795 kcmil Taps (Yellow Cartridge P/N 69338-4 separately)	
602121	795-795
602121-1	795-715
602121-2	795-636
602121-3	795-556.5
602121-4	795-477
602121-5	795-397.5
602121-6	795-336.4
602121-7	795-266.8
602121-8	795-4/0
602121-9	795-3/0
1-602121-0	795-2/0
1-602121-1	795-1/0
1-602121-2	795-2
1-602121-3	795-4
1-602121-4	795-6
1033.5 kcmil Taps (Yellow Cartridge P/N 69338-4 separately)	
602180	1033.5-1033.5
602180-1	1033.5-954.0
602180-2	1033.5-795.0
602180-3	1033.5-715.5
602180-4	1033.5-636.0
602180-5	1033.5-556.5
602180-6	1033.5-477.0
602180-7	1033.5-397.5
602180-8	1033.5-336.4
602180-9	1033.5-266.8
1-602180-0	1033.5-4/0
1-602180-1	1033.5-3/0
1-602180-2	1033.5-2/0
1-602180-3	1033.5-1/0
1-602180-4	1033.5-2
1-602180-5	1033.5-4
1-602180-6	1033.5-6
1192.5 kcmil Taps (Yellow Cartridge P/N 69338-4 separately)	
602300	1192.5-1192.5
602300-1	1192.5-1033.5
602300-2	1192.5-954.0
602300-3	1192.5-795.0
602300-4	1192.5-715.5
602300-5	1192.5-636.0
602300-6	1192.5-556.5
602300-7	1192.5-477.0
602300-8	1192.5-397.5
602300-9	1192.5-336.4
1-602300-0	1192.5-266.8
1-602300-1	1192.5-4/0
1-602300-2	1192.5-3/0
1-602300-3	1192.5-2/0
1-602300-4	1192.5-1/0
1-602300-5	1192.5-2
1-602300-6	1192.5-4
1-602300-7	1192.5-6

Note: For specific wire sizes refer to the AMPACT Tap Selection Guide.

AMPACT DIAMETER LIMITS SELECTION GUIDE: DIMENSIONS IN INCHES (MM)

Catalog Number	Sum of Diameters		(Large Groove) Through Wire Diameter		(Small Groove) Tap Wire Diameter	
	max	min	max	min	max	min
Type II Taps (White Coded)						
602283	.724 (18.39)	.583 (14.81)	.398 (10.11)	.257 (6.53)	.398 (10.11)	.257 (6.53)
602283-1	.656 (16.66)	.515 (13.08)	.398 (10.11)	.257 (6.53)	.330 (8.38)	.204 (5.18)
602283-2	.602 (15.29)	.464 (11.79)	.398 (10.11)	.257 (6.53)	.258 (6.55)	.162 (4.11)
602283-3	.530 (13.46)	.410 (10.41)	.330 (8.38)	.204 (5.18)	.258 (6.55)	.162 (4.11)
602283-4	.456 (11.58)	.331 (8.41)	.258 (6.55)	.162 (4.11)	.230 (5.84)	.162 (4.11)
602283-5	.324 (8.23)	.256 (6.50)	.162 (4.11)	.128 (3.25)	.162 (4.11)	.128 (3.25)
602283-6	.560 (14.22)	.452 (11.48)	.398 (10.11)	.257 (6.53)	.162 (4.11)	.128 (3.25)
602283-7	.488 (12.40)	.387 (9.83)	.398 (10.11)	.257 (6.53)	.162 (4.11)	.128 (3.25)
602283-8	.416 (10.57)	.297 (7.54)	.258 (6.55)	.162 (4.11)	.162 (4.11)	.128 (3.25)
Medium Wire Range Taps (Blue Coded)						
600403	.796 (20.22)	.621 (15.77)	.500 (12.70)	.324 (8.23)	.464 (11.79)	.257 (6.53)
600411	.901 (22.89)	.736 (18.69)	.572 (14.53)	.364 (9.25)	.464 (11.79)	.257 (6.53)
600446	.707 (17.96)	.526 (13.36)	.572 (14.53)	.364 (9.25)	.204 (5.18)	.162 (4.11)
600447	.761 (19.33)	.570 (14.48)	.572 (14.53)	.364 (9.25)	.258 (6.55)	.204 (5.18)
600448	.846 (21.49)	.690 (17.53)	.572 (14.53)	.364 (9.25)	.398 (10.11)	.257 (6.53)
600455	.769 (19.53)	.622 (15.80)	.572 (14.53)	.364 (9.25)	.204 (5.18)	.162 (4.11)
600456	.823 (20.90)	.664 (16.87)	.572 (14.53)	.364 (9.25)	.258 (6.55)	.204 (5.18)
600458	.963 (24.46)	.804 (20.42)	.572 (14.53)	.364 (9.25)	.464 (11.79)	.257 (6.53)
600459	1.013 (25.73)	.858 (21.79)	.572 (14.53)	.364 (9.25)	.572 (14.53)	.364 (9.25)
600465	1.068 (27.13)	.938 (23.83)	.572 (14.53)	.364 (9.25)	.572 (14.53)	.364 (9.25)
600466	1.130 (28.70)	.956 (24.28)	.572 (14.53)	.364 (9.25)	.572 (14.53)	.364 (9.25)
226.8 kcmil Range Taps (Blue Coded)						
602046-1	.846 (21.49)	.699 (17.75)	.650 (16.51)	.525 (13.34)	.204 (5.18)	.162 (4.11)
602046-2	.900 (22.86)	.755 (19.18)	.650 (16.51)	.525 (13.34)	.258 (6.55)	.204 (5.18)
602046-3	.972 (24.69)	.818 (20.78)	.650 (16.51)	.525 (13.34)	.330 (8.38)	.257 (6.53)
602046-4	1.052 (26.72)	.897 (22.78)	.650 (16.51)	.525 (13.34)	.500 (12.70)	.324 (8.23)
602046-5	1.104 (28.04)	.963 (24.46)	.650 (16.51)	.525 (13.34)	.562 (14.27)	.364 (9.25)
602046-6	1.159 (29.44)	1.015 (25.78)	.650 (16.51)	.525 (13.34)	.562 (14.27)	.409 (10.39)
602046-7	1.217 (30.91)	1.080 (27.43)	.650 (16.51)	.525 (13.34)	.575 (14.61)	.460 (11.68)
602046-9	1.284 (32.61)	1.149 (29.18)	.650 (16.51)	.525 (13.34)	.650 (16.51)	.525 (13.34)
350 kcmil Range Taps (Blue Coded)						
602380	.885 (22.48)	.738 (18.75)	.684 (17.37)	.600 (15.24)	.204 (5.18)	.162 (4.11)
602380-1	.939 (23.85)	.794 (20.17)	.684 (17.37)	.600 (15.24)	.258 (6.55)	.204 (5.18)
602380-2	1.011 (25.68)	.857 (21.77)	.684 (17.37)	.600 (15.24)	.333 (8.46)	.257 (6.53)
602380-3	1.091 (27.71)	.936 (23.77)	.684 (17.37)	.600 (15.24)	.500 (12.70)	.324 (8.23)
602380-4	1.143 (29.03)	1.002 (25.45)	.684 (17.37)	.600 (15.24)	.562 (14.27)	.364 (9.25)
602380-5	1.198 (30.43)	1.054 (26.77)	.684 (17.37)	.600 (15.24)	.562 (14.27)	.409 (10.39)
602380-6	1.284 (32.61)	1.119 (28.42)	.684 (17.37)	.600 (15.24)	.600 (15.24)	.460 (11.68)
602380-7	1.368 (34.75)	1.188 (30.18)	.684 (17.37)	.600 (15.24)	.684 (17.37)	.600 (15.24)
336.4 kcmil Range Taps (Yellow Coded)						
602000	1.069 (27.15)	.860 (21.84)	.750 (19.05)	.524 (13.31)	.355 (9.02)	.257 (6.53)
602001	1.141 (28.98)	.927 (23.55)	.750 (19.05)	.524 (13.31)	.557 (14.15)	.324 (8.23)
602002	1.190 (30.23)	.967 (24.56)	.750 (19.05)	.524 (13.31)	.619 (15.72)	.364 (9.25)
602003	1.245 (31.62)	1.012 (25.70)	.750 (19.05)	.524 (13.31)	.619 (15.72)	.409 (10.39)
602004	1.306 (33.17)	1.063 (27.00)	.750 (19.05)	.524 (13.31)	.630 (16.00)	.460 (11.68)
602006	1.370 (34.08)	1.140 (28.96)	.750 (19.05)	.524 (13.31)	.750 (19.05)	.524 (13.31)
602007	1.456 (36.98)	1.206 (30.63)	.750 (19.05)	.524 (13.31)	.750 (19.05)	.524 (13.31)
602013	.999 (25.37)	.807 (20.50)	.750 (19.05)	.524 (13.31)	.258 (6.55)	.204 (5.18)
602014	.932 (23.67)	.765 (19.43)	.750 (19.05)	.524 (13.31)	.204 (5.18)	.162 (4.11)
477.0 kcmil Range Taps (Yellow Coded)						
602031-8	1.185 (30.10)	.995 (25.27)	.893 (22.68)	.666 (16.92)	.326 (8.28)	.257 (6.53)
602031-9	1.118 (28.40)	.942 (23.93)	.893 (22.68)	.666 (16.92)	.258 (6.55)	.204 (5.18)
1-602031-0	1.056 (26.82)	.900 (22.86)	.893 (22.68)	.666 (16.92)	.199 (5.05)	.162 (4.11)

NOTE: Wire must fit in small Diameter range and Large diameter range. Sum of both wires must fit with in the Min and Max of sum of diameters.

AMPACT DIAMETER LIMITS SELECTION GUIDE: DIMENSIONS IN INCHES (MM)

Catalog Number	Sum of Diameters		(Large Groove) Through Wire Diameter		(Small Groove) Tap Wire Diameter	
	max	min	max	min	max	min
477.0/556.5 kcmil Range Taps (Yellow Coded)						
1-602031-2	1.854 (47.09)	1.692 (42.98)	.950 (24.13)	.722 (18.34)	.950 (24.13)	.722 (18.34)
1-602031-3	1.741 (44.22)	1.524 (38.71)	.940 (23.88)	.666 (16.92)	.940 (23.88)	.666 (16.92)
1-602031-4	1.587 (40.31)	1.366 (34.70)	.940 (23.88)	.666 (16.92)	.750 (19.05)	.573 (14.55)
1-602031-5	1.500 (38.10)	1.297 (32.94)	.940 (23.88)	.666 (16.92)	.750 (19.05)	.481 (12.22)
1-602031-6	1.421 (36.09)	1.216 (30.89)	.940 (23.88)	.666 (16.92)	.650 (16.51)	.436 (11.07)
1-602031-7	1.360 (34.54)	1.147 (29.13)	.940 (23.88)	.666 (16.92)	.562 (14.27)	.382 (9.70)
1-602031-8	1.305 (33.15)	1.102 (27.99)	.940 (23.88)	.666 (16.92)	.562 (14.27)	.346 (8.79)
1-602031-9	1.270 (32.26)	1.062 (26.97)	.940 (23.88)	.666 (16.92)	.450 (11.43)	.324 (8.23)
2-602031-0	1.247 (31.67)	1.115 (28.32)	.940 (23.88)	.666 (16.92)	.326 (8.28)	.257 (6.53)
2-602031-1	1.181 (30.00)	1.062 (26.97)	.940 (23.88)	.666 (16.92)	.258 (6.55)	.204 (5.18)
2-602031-2	1.126 (28.60)	1.020 (25.91)	.940 (23.88)	.666 (16.92)	.199 (5.05)	.162 (4.11)
795.0 kcmil Range Taps (Yellow Coded)						
602121	2.216 (56.29)	2.072 (52.63)	1.156 (29.36)	.858 (21.79)	1.158 (29.41)	.858 (21.79)
602121-1	2.159 (54.84)	2.002 (50.85)	1.156 (29.36)	.858 (21.79)	1.156 (29.36)	.858 (21.79)
602121-2	2.098 (53.29)	1.946 (49.43)	1.156 (29.36)	.858 (21.79)	1.156 (29.36)	.858 (21.79)
602121-3	2.035 (51.69)	1.891 (48.03)	1.156 (29.36)	.858 (21.79)	1.156 (29.36)	.858 (21.79)
602121-4	1.966 (49.94)	1.822 (46.28)	1.156 (29.36)	.858 (21.79)	.900 (22.86)	.700 (17.78)
602121-5	1.891 (48.03)	1.747 (44.37)	1.156 (29.36)	.858 (21.79)	.900 (22.86)	.700 (17.78)
602121-6	1.829 (46.46)	1.685 (42.80)	1.156 (29.36)	.858 (21.79)	.750 (19.05)	.525 (13.34)
602121-7	1.750 (44.45)	1.606 (40.79)	1.156 (29.36)	.858 (21.79)	.722 (18.34)	.525 (13.34)
602121-8	1.670 (42.42)	1.526 (38.76)	1.156 (29.36)	.858 (21.79)	.722 (18.34)	.364 (9.25)
602121-9	1.610 (40.89)	1.466 (37.24)	1.156 (29.36)	.858 (21.79)	.608 (15.44)	.364 (9.25)
1-602121-0	1.555 (39.50)	1.411 (35.84)	1.156 (29.36)	.858 (21.79)	.608 (15.44)	.364 (9.25)
1-602121-1	1.506 (38.25)	1.362 (34.59)	1.156 (29.36)	.858 (21.79)	.436 (11.07)	.324 (8.23)
1-602121-2	1.434 (36.42)	1.290 (32.77)	1.156 (29.36)	.858 (21.79)	.398 (10.11)	.257 (6.53)
1-602121-3	1.365 (34.67)	1.221 (31.01)	1.156 (29.36)	.858 (21.79)	.312 (7.92)	.204 (5.18)
1-602121-4	1.306 (33.17)	1.162 (29.51)	1.156 (29.36)	.858 (21.79)	.250 (6.35)	.162 (4.11)
1033.5 kcmil Range Taps (Yellow Coded)						
602180	2.496 (63.40)	2.332 (59.23)	1.250 (31.75)	.856 (21.74)	1.250 (31.75)	.856 (21.74)
602180-1	2.411 (61.24)	2.251 (57.18)	1.250 (31.75)	.856 (21.74)	1.250 (31.75)	.856 (21.74)
602180-2	2.354 (59.79)	2.194 (55.73)	1.250 (31.75)	.856 (21.74)	1.250 (31.75)	.856 (21.74)
602180-3	2.297 (58.34)	2.137 (54.28)	1.250 (31.75)	.856 (21.74)	1.250 (31.75)	.856 (21.74)
602180-4	2.236 (56.79)	2.076 (52.73)	1.250 (31.75)	.856 (21.74)	1.250 (31.75)	.856 (21.74)
602180-5	2.173 (55.19)	2.013 (51.13)	1.250 (31.75)	.856 (21.74)	1.250 (31.75)	.856 (21.74)
602180-6	2.104 (53.44)	1.944 (49.38)	1.250 (31.75)	.856 (21.74)	.900 (22.86)	.700 (17.78)
602180-7	2.029 (51.54)	1.869 (47.47)	1.250 (31.75)	.856 (21.74)	.900 (22.86)	.700 (17.78)
602180-8	1.967 (49.96)	1.807 (45.90)	1.250 (31.75)	.856 (21.74)	.750 (19.05)	.525 (13.34)
602180-9	1.888 (47.96)	1.728 (43.89)	1.250 (31.75)	.856 (21.74)	.722 (18.34)	.525 (13.34)
1-602180-0	1.808 (45.92)	1.648 (41.86)	1.250 (31.75)	.856 (21.74)	.608 (15.44)	.364 (9.25)
1-602180-1	1.748 (44.40)	1.588 (40.34)	1.250 (31.75)	.856 (21.74)	.608 (15.44)	.364 (9.25)
1-602180-2	1.693 (43.00)	1.533 (38.94)	1.250 (31.75)	.856 (21.74)	.608 (15.44)	.364 (9.25)
1-602180-3	1.644 (41.76)	1.484 (37.69)	1.250 (31.75)	.856 (21.74)	.398 (10.11)	.324 (8.23)
1-602180-4	1.572 (39.93)	1.412 (35.86)	1.250 (31.75)	.856 (21.74)	.326 (8.28)	.257 (6.53)
1-602180-5	1.503 (38.18)	1.343 (34.11)	1.250 (31.75)	.856 (21.74)	.258 (6.55)	.204 (5.18)
1-602180-6	1.644 (36.68)	1.284 (32.61)	1.250 (31.75)	.856 (21.74)	.198 (5.03)	.162 (4.11)

NOTE: Wire must fit in small Diameter range and Large diameter range. Sum of both wires must fit with in the Min and Max of sum of diameters.

AMPACT DIAMETER LIMITS SELECTION GUIDE: DIMENSIONS IN INCHES (MM)

Catalog Number	Sum of Diameters		(Large Groove) Through Wire Diameter		(Small Groove) Tap Wire Diameter	
	max	min	max	min	max	min
1192.5 kcmil RANGE TAPS (Yellow Coded)						
602300	2.604 (66.14)	2.516 (63.91)	1.375 (34.93)	.856 (21.74)	1.375 (34.93)	.856 (21.74)
602300-1	2.548 (64.72)	2.448 (62.18)	1.375 (34.93)	.856 (21.74)	1.375 (34.93)	.856 (21.74)
602300-2	2.498 (63.45)	2.398 (60.91)	1.375 (34.93)	.856 (21.74)	1.375 (34.93)	.856 (21.74)
602300-3	2.410 (61.21)	2.310 (58.67)	1.375 (34.93)	.856 (21.74)	1.375 (34.93)	.856 (21.74)
602300-4	2,353 (59.77)	2.253 (57.23)	1.375 (34.93)	.856 (21.74)	1.375 (34.93)	.856 (21.74)
602300-5	2.292 (58.22)	2.192 (55.68)	1.375 (34.93)	.856 (21.74)	1.375 (34.93)	.856 (21.74)
602300-6	2.229 (56.62)	2.129 (54.08)	1.375 (34.93)	.856 (21.74)	1.375 (34.93)	.856 (21.74)
602300-7	2.160 (54.86)	2.060 (52.32)	1.375 (34.93)	.856 (21.74)	.900 (22.86)	.700 (17.78)
602300-8	2.085 (52.96)	1.985 (50.42)	1.375 (34.93)	.856 (21.74)	.900 (22.86)	.700 (17.78)
602300-9	2.023 (51.38)	1.923 (48.84)	1.375 (34.93)	.856 (21.74)	.750 (19.05)	.525 (13.34)
1-602300-0	1.944 (49.38)	1.844 (46.84)	1.375 (34.93)	.856 (21.74)	.722 (18.34)	.525 (13.34)
1-602300-1	1.865 (47.37)	1.765 (44.83)	1.375 (34.93)	.856 (21.74)	.608 (15.44)	.364 (9.25)
1-602300-2	1.804 (45.82)	1.704 (43.28)	1.375 (34.93)	.856 (21.74)	.608 (15.44)	.364 (9.25)
1-602300-3	1.749 (44.42)	1.649 (41.88)	1.375 (34.93)	.856 (21.74)	.608 (15.44)	.364 (9.25)
1-602300-4	1.701 (43.21)	1.601 (40.67)	1.375 (34.93)	.856 (21.74)	.398 (10.11)	.324 (8.23)
1-602300-5	1.627 (41.33)	1.527 (38.79)	1.375 (34.93)	.856 (21.74)	.326 (8.28)	.257 (6.53)
1-602300-6	1.559 (39.60)	1.459 (37.06)	1.375 (34.93)	.856 (21.74)	.258 (6.55)	.204 (5.18)
1-602300-7	1.500 (38.10)	1.400 (35.56)	1.375 (34.93)	.856 (21.74)	.198 (5.03)	.162 (4.11)

NOTE: Wire must fit in small Diameter range and Large diameter range. Sum of both wires must fit with in the Min and Max of sum of diameters.

AMPACT EL - Extra Large Cables

FEATURES

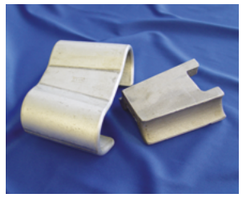
- TE's AMPACT EL connectors can be used in high voltage applications up to 230 kV. 500 kV lines will require a corona ring.

APPLICATIONS

- Designed for use on a larger conductor that is used on transmission lines.

BENEFITS

- TE's AMPACT EL connectors can be used on solid and stranded aluminum, aluminum alloy and stranded aluminum composite conductors including AAC, AAAC, ACSR, ACAR, AW, ACSR/AW and ACSS.



*Use yellow cartridge 69338-4, HAL - Hard Drawn Aluminum, use AMPACT tool 69611 to apply taps.
Contact your TE sales representative for additional sizes.

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Connector Description	Sum of Diameter	Large Groove	Small Groove
1443208-1	2500 AAC - 2500 AAC	3.648	1.824	1.824
1443209-1	1351.5 ACSR (54/19)-636 ACSR (26/7)	2.414	1.424	0.099
109423-1	1590 AAC (61)-795 AAC (61)	2.482	1.454	1.028
276915-1	1590 ACSR (45/7)-1590 ACSR (45/7)	3.008	1.504	1.504
81673-1	1590 ACSR (45/7)-1272 ACSR (45/7)	2.849	1.504	1.345
81673-2	1590 ACSR (45/7)-795 ACSR (45/7)	2.567	1.504	1.063
83086-1	1590 ACSR (45/7)-336 ACSR (26/7)	2.225	1.504	0.721
83086-2	1590 ACSR (45/7)-4/0 AAC (SOL)	1.964	1.504	0.46
109424-1	1351.5 ACSR (54/19)-1351.5 ACSR (54/19)	2.848	1.424	1.424
109703-1	1351.5 ACSR (54/19)-397.5 ACSR (18/1)	2.167	1.424	0.743
276548-1	1843.2 ACSR (72/7)-795.5 ACSR (27/7)	2.712	1.604	1.108
602080	2500 AAC (X)-500 AAC (19), 500 CU (19)	2.635 2.634	1.824	0.811 0.810
602080-1	2500 AAC (X)-500 AAC (19), 500 CU (19)	2.635 2.634	1.824	0.811 0.810
109433-1	1272 ACSR (45/7)-954 ACSR (45/7)	2.51	1.345	1.165
276300-1	1272 ACSR (45/7), (36/1)-1272 ACSR (45/7), (36/1)	2.690 2.632	1.345 1.316	1.345 1.316
1443268-1	1272 ACSR (54/19)-1272 ACSR (54/19)	2.764	1.382	1.382
	850 mm2 HAL-660 mm2 HAL*	2.799	1.488	1.311
81698-1	2167 ACSR (72/7-556.5 ACSR (24/7)	2.651	1.737	0.914
83861-1	143 AAC (61)-1272 ACSR (45/7)	2.724	1.379	1.345
1443259-1	1351.5 ACSR (54/19)-397.5 ACSR (18/1)	2.167	1.424	0.743

Addtional Sizes Available contact your local Area Sales Manager

AMPACT HTT High Temperature

FEATURES

- New contact-aid compound (corrosion inhibitor). This inhibitor compound is capable of sealing the electrical contact area of the connectors while exposed to high operating temperatures.
- Synthetic lubricant will not degrade insulating materials. It is safe to use and will not damage conductor insulation.
- Metal-to-metal contact areas are established and sealed.
- Exceeds ANSI C119.4 AA standard current cycling test specifications.
- Meets mechanical pull test and corrosion requirements.

APPLICATIONS

- Suitable for use on ACSS overhead lines operating at temperatures up to 250°C
- Accommodates a wide range of cable diameters.

BENEFITS

- Containts newly developed contact-aid compound (corrosion inhibitor) that is capable of sealing the electrical contact area of the connectors while exposed to high operating temperatures.
- Integrated, large, hard, conductive metal alloy particles scrub the conductor during wedge travel, so the conductor is abraded during the connection installation process.
- Wedge technology combined with a proprietary high-temperature corrosion inhibitor enhances connector reliability on ACSS conductors.

AMPACT



PRODUCT SELECTION INFORMATION

Catalog Number	Description	Size
1443316-2	AMPACT High Temperature Inhibitor	1-pound can

AMPACT HTT are installed with standard AMPACT tools.
• HT Inhibitor may be purchased separately for any HT application.

AMPACT HTT High Temperature

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Sum of Diameters		(Large Groove) Through Wire Diameter		(Small Groove) Tap Wire Diameter	
	max	min	max	min	max	min
336 kcmil Range Taps Yellow Coded						
2182370-1	1.456 (36.98)	1.206 (30.63)	.750 (19.05)	.524 (13.31)	.750 (19.05)	.524 (13.31)
336/477 /556 kcmil Range Taps Yellow Coded						
1443516-5	1.854 (47.09)	1.692 (42.98)	.950 (24.13)	.722 (18.34)	.950 (24.13)	.722 (18.34)
1443516-6	1.741 (44.22)	1.524 (38.71)	.940 (23.88)	.666 (16.92)	.940 (23.88)	.666 (16.92)
1443516-4	1.587 (40.31)	1.366 (34.70)	.940 (23.88)	.666 (16.92)	.750 (19.05)	.573 (14.55)
1443516-1	1.500 (38.10)	1.297 (32.94)	.940 (23.88)	.666 (16.92)	.750 (19.05)	.481 (12.22)
1443516-2	1.421 (36.09)	1.216 (30.89)	.940 (23.88)	.666 (16.92)	.650 (16.51)	.436 (11.07)
1443516-3	1.056 (26.82)	.900 (22.86)	.893 (22.68)	.666 (16.92)	.199 (5.05)	.162 (4.11)
795 kcmil Range Taps Yellow Coded						
1443455-1	2.216 (56.29)	2.072 (52.63)	1.156 (29.36)	.858 (21.79)	1.158 (29.41)	.858 (21.79)
1443455-2	2.159 (54.84)	2.002 (50.85)	1.156 (29.36)	.858 (21.79)	1.156 (29.36)	.858 (21.79)
1443455-3	2.098 (53.29)	1.946 (49.43)	1.156 (29.36)	.858 (21.79)	1.156 (29.36)	.858 (21.79)
1443455-4	2.035 (51.69)	1.891 (48.03)	1.156 (29.36)	.858 (21.79)	1.156 (29.36)	.858 (21.79)
1443455-5	1.966 (49.94)	1.822 (46.28)	1.156 (29.36)	.858 (21.79)	.900 (22.86)	.700 (17.78)
1443455-6	1.891 (48.03)	1.747 (44.37)	1.156 (29.36)	.858 (21.79)	.900 (22.86)	.700 (17.78)
1443455-7	1.829 (46.46)	1.685 (42.80)	1.156 (29.36)	.858 (21.79)	.750 (19.05)	.525 (13.34)
1443455-8	1.750 (44.45)	1.606 (40.79)	1.156 (29.36)	.858 (21.79)	.722 (18.34)	.525 (13.34)
1033.5 kcmil Range Taps Yellow Coded						
1443454-1	2.496 (63.40)	2.332 (59.23)	1.250 (31.75)	.856 (21.74)	1.250 (31.75)	.856 (21.74)
1443454-2	2.411 (61.24)	2.251 (57.18)	1.250 (31.75)	.856 (21.74)	1.250 (31.75)	.856 (21.74)
1443454-3	2.354 (59.79)	2.194 (55.73)	1.250 (31.75)	.856 (21.74)	1.250 (31.75)	.856 (21.74)
1443454-4	2.297 (58.34)	2.137 (54.28)	1.250 (31.75)	.856 (21.74)	1.250 (31.75)	.856 (21.74)
1443454-5	2.236 (56.79)	2.076 (52.73)	1.250 (31.75)	.856 (21.74)	1.250 (31.75)	.856 (21.74)
1443454-6	2.173 (55.19)	2.013 (51.13)	1.250 (31.75)	.856 (21.74)	1.250 (31.75)	.856 (21.74)
1443454-7	2.104 (53.44)	1.944 (49.38)	1.250 (31.75)	.856 (21.74)	.900 (22.86)	.700 (17.78)
1443454-8	2.029 (51.54)	1.869 (47.47)	1.250 (31.75)	.856 (21.74)	.900 (22.86)	.700 (17.78)
1443454-9	1.967 (49.96)	1.807 (45.90)	1.250 (31.75)	.856 (21.74)	.750 (19.05)	.525 (13.34)
1-1443454-0	1.888 (47.96)	1.728 (43.89)	1.250 (31.75)	.856 (21.74)	.722 (18.34)	.525 (13.34)
1033.5 kcmil Range Taps Yellow Coded						
2182371-1	2.604 (66.14)	2.516 (63.91)	1.375 (34.93)	.856 (21.74)	1.375 (34.93)	.856 (21.74)
2182371-2	2.548 (64.72)	2.448 (62.18)	1.375 (34.93)	.856 (21.74)	1.375 (34.93)	.856 (21.74)
2182371-3	2.498 (63.45)	2.398 (60.91)	1.375 (34.93)	.856 (21.74)	1.375 (34.93)	.856 (21.74)
2182371-4	2.410 (61.21)	2.310 (58.67)	1.375 (34.93)	.856 (21.74)	1.375 (34.93)	.856 (21.74)
2182371-5	2.353 (59.77)	2.253 (57.23)	1.375 (34.93)	.856 (21.74)	1.375 (34.93)	.856 (21.74)
2182371-6	2.292 (58.22)	2.192 (55.68)	1.375 (34.93)	.856 (21.74)	1.375 (34.93)	.856 (21.74)
2182371-7	2.229 (56.62)	2.129 (54.08)	1.375 (34.93)	.856 (21.74)	1.375 (34.93)	.856 (21.74)
2182371-8	2.160 (54.86)	2.060 (52.32)	1.375 (34.93)	.856 (21.74)	.900 (22.86)	.700 (17.78)
2182371-9	2.085 (52.96)	1.985 (50.42)	1.375 (34.93)	.856 (21.74)	.900 (22.86)	.700 (17.78)
1-2182371-0	2.023 (51.38)	1.923 (48.84)	1.375 (34.93)	.856 (21.74)	.750 (19.05)	.525 (13.34)
1-2182371-1	1.944 (49.38)	1.844 (46.84)	1.375 (34.93)	.856 (21.74)	.722 (18.34)	.525 (13.34)
1272 kcmil Range Taps Yellow Coded						
2182332-1	2.488 (63.20)	2.452 (62.28)	1.381 (35.08)	1.345 (34.16)	1.107 (28.12)	1.107 (28.12)
2182332-2	2.690 (68.33)	2.690 (68.33)	1.345 (34.16)	1.345 (34.16)	1.345 (34.16)	1.345 (34.16)
2182332-3	2.264 (57.51)	2.159 (54.84)	1.381 (35.08)	1.345 (34.16)	0.883 (22.43)	0.814 (20.68)
2182332-4	2.762 (70.16)	2.726 (69.24)	1.381 (35.08)	1.381 (35.08)	1.381 (35.08)	1.345 (34.16)
2182332-5	2.510 (63.75)	2.510 (63.75)	1.345 (34.16)	1.345 (34.16)	1.165 (29.59)	1.165 (29.59)
1590 kcmil Range Taps Yellow Coded						
2182520-1	3.088 (78.44)	2.984 (75.79)	1.544 (39.22)	1.492 (37.90)	1.544 (39.22)	1.492 (37.90)
2182520-2	3.009 (76.43)	2.916 (74.07)	1.544 (39.22)	1.492 (37.90)	1.465 (37.21)	1.424 (36.17)
2182520-3	2.930 (74.42)	2.837 (72.06)	1.544 (39.22)	1.424 (36.17)	1.465 (37.21)	1.345 (34.16)
2182520-4	2.846 (72.29)	2.737 (69.52)	1.544 (39.22)	1.424 (36.17)	1.386 (35.20)	1.245 (31.62)
2182520-5	2.772 (70.41)	2.657 (67.49)	1.544 (39.22)	1.381 (35.08)	1.386 (35.20)	1.165 (29.59)
2182520-6	2.688 (68.28)	2.584 (65.63)	1.544 (39.22)	1.381 (35.08)	1.302 (33.07)	1.092 (27.74)
2182520-7	2.598 (65.99)	2.469 (62.71)	1.544 (39.22)	1.381 (35.08)	1.212 (30.78)	0.977 (24.82)
2182520-8	2.497 (63.42)	2.401 (60.99)	1.544 (39.22)	1.381 (35.08)	1.107 (28.12)	0.914 (23.22)
2182520-9	2.427 (61.65)	2.338 (59.39)	1.544 (39.22)	1.381 (35.08)	1.019 (25.88)	0.846 (21.49)
1-2182520-0	2.350 (59.69)	2.264 (57.51)	1.544 (39.22)	1.381 (35.08)	0.953 (24.21)	0.772 (19.61)
1-2182520-1	2.285 (58.04)	2.196 (55.78)	1.544 (39.22)	1.381 (35.08)	0.883 (22.43)	0.720 (18.29)
1-2182520-2	2.204 (55.98)	2.134 (54.20)	1.544 (39.22)	1.381 (35.08)	0.806 (20.47)	0.642 (16.31)

AMPACT BAT - Bolt Actuated Tap Connectors

FEATURES

- Expanded application range with use of removable insert
- Easy to install with a standard impact wrench
- Tap connectors may be used to connect multiple conductor combinations
- No damage to the conductors when installing or removing the tap connectors
- Solid stop for visual inspection of properly installed connector
- RUS listed

APPLICATIONS

- Overhead Power Systems
- Electrical Substations
- Electrical performance according to ANSI C-119.4 Class AA
- Short-time current test to AS1154.1



BENEFITS

- The new bolt actuated element replaces the powder actuated installation process, making it easier for linemen to install, while still providing the technical performance of the first generation of AMPACT connectors.
- Designed to fit a wide range of conductor sizes, allowing for streamlined stock management.

4/0 SERIES - SUM OF DIAMETER LIMITS SELECTION GUIDE (DIMENSIONS ARE IN INCHES)

Catalog Number	Sum of Diameters		Main Conductor Diameter (Large Groove)		Tap Conductor Diameter (Small Groove)	
	max	min	max	min	max	min
2445483-1	1.126	0.986	0.563	0.522	0.563	0.464
2445483-2	1.010	0.877	0.563	0.464	0.502	0.355
2445483-3	0.900	0.782	0.563	0.414	0.447	0.292
2445483-4	0.827	0.696	0.563	0.398	0.398	0.162
2445483-5	0.723	0.584	0.502	0.292	0.355	0.162
2445483-6	0.596	0.464	0.398	0.232	0.258	0.162
2445483-7	0.455	0.368	0.257	0.162	0.204	0.162

556 SERIES - SUM OF DIAMETER LIMITS SELECTION GUIDE (DIMENSIONS ARE IN INCHES)

Catalog Number	Insert	Sum of Diameters		Main Conductor Diameter (Large Groove)		Tap Conductor Diameter (Small Groove)	
		max	min	max	min	max	min
2376750-1	REMOVED	1.854	1.712	0.927	0.856	0.927	0.856
	USED	1.641	1.515	0.927	0.792	0.806	0.665
2376750-2	REMOVED	1.785	1.648	0.927	0.856	0.858	0.792
	USED	1.578	1.442	0.927	0.723	0.806	0.586
2376750-3	REMOVED	1.716	1.579	0.927	0.792	0.858	0.723
	USED	1.503	1.378	0.927	0.723	0.720	0.522
2376750-4	REMOVED	1.854	1.712	0.927	0.856	0.927	0.856
	USED	1.440	1.309	0.927	0.665	0.720	0.464
2376750-5	REMOVED	1.785	1.648	0.927	0.856	0.858	0.792
	USED	1.374	1.245	0.927	0.665	0.642	0.414
2376750-6	REMOVED	1.716	1.579	0.927	0.792	0.858	0.723
	USED	1.325	1.172	0.927	0.586	0.642	0.368
2376750-7	CONNECTOR DOES NOT UTILIZE INSERT	1.256	1.108	0.927	0.586	0.563	0.292
2376750-8		1.185	1.046	0.927	0.586	0.502	0.232
2376750-9		1.131	0.996	0.927	0.586	0.447	0.162
1-2376750-0		1.062	0.951	0.858	0.586	0.398	0.162
1-2376750-1		0.987	0.878	0.783	0.586	0.325	0.162
1-2376750-2		0.924	0.818	0.720	0.586	0.257	0.162

795 SERIES - SUM OF DIAMETER LIMITS SELECTION GUIDE (DIMENSIONS ARE IN INCHES)

Catalog Number	Insert	Sum of Diameters		Main Conductor Diameter (Large Groove)		Tap Conductor Diameter (Small Groove)	
		max	min	max	min	max	min
2377042-1	REMOVED	2.216	2.054	1.108	1.027	1.108	1.027
	USED	2.035	1.883	1.108	0.953	0.994	0.856
2377042-2	REMOVED	2.159	2.002	1.108	1.027	1.051	0.975
	USED	1.966	1.819	1.108	0.953	0.953	0.792
2377042-3	REMOVED	2.102	1.945	1.108	0.975	1.019	0.918
	USED	1.891	1.745	1.108	0.953	0.883	0.723
2377042-4	REMOVED	2.159	2.002	1.108	1.027	1.051	0.975
	USED	1.828	1.689	1.108	0.953	0.806	0.665
2377042-5	REMOVED	2.102	1.945	1.108	0.975	1.019	0.918
	USED	1.760	1.618	1.108	0.953	0.741	0.586
2377042-6	REMOVED	1.671	1.539	1.108	0.953	0.642	0.522
	USED	1.506	1.363	1.108	0.953	0.447	0.365
2377042-7	REMOVED	1.610	1.475	1.108	0.953	0.563	0.460
	USED	1.433	1.300	1.108	0.953	0.398	0.292
2377042-8	CONNECTOR DOES NOT UTILIZE INSERT	1.555	1.413	1.108	0.953	0.502	0.410
2377042-9		1.366	1.233	1.108	0.953	0.325	0.204
1-2377042-0		1.306	1.157	1.108	0.953	0.258	0.162

NOTE: Conductor diameters must fit within the Main and Tap diameter ranges. The sum of both conductor diameters must fit within the Min and Max range of the Sum of Diameters.

AMPACT Stirrups

FEATURES

- Easy to install with AMPACT tooling
- Heavy duty, tin plated copper bail



APPLICATIONS

- Connects almost all solid, stranded or compressed conductor combinations
- Electrical performance according to ANSI C-119.4 Class AA

BENEFITS

- No damage to conductors when removed

PRODUCT SELECTION INFORMATION: FIRED ON

Catalog Number	Conductor Range Size	ACSR, AAC, Conductor	Standard Bail	Part Number	Cartridge Color	Amperage
602585	Type II	#6	No. 2	69338-5	White	340††
602586	Type II	#4, #2	No. 2	69338-5	White	340††
1443312-1	Medium	#4, #2	No. 2	69338-1	Blue	340††
600464	Medium	1/0 or 2/0	No. 2	69338-1	Blue	400
275436-1	Medium	1/0 or 2/0	1/0	69338-1	Blue	550
600468	Medium	2/0 or 3/0	No. 2	69338-1	Blue	400
600469	Medium	3/0 or 4/0	No. 2	69338-1	Blue	400
275435-1	Medium	3/0 or 4/0	1/0	69338-1	Blue	550
602173	Medium	3/0 or 4/0	2/0	69338-1	Blue	550††
600463	Medium	266.8	No. 2	69338-1	Blue	400
602201	Medium	266.8	1/0	69338-1	Blue	550
602502	Medium	350 AAC	1/0	69338-1	Blue	550
276478-1	Medium	350 AAC	No. 2	69338-1	Blue	400
600474	Large	336.4	1/0	69338-4	Yellow	550
602142	Large	336.4	2/0	69338-4	Yellow	700
602136	Large	336.4	4/0	69338-4	Yellow	700
602047	Large	397.5 or 477	1/0	69338-4	Yellow	550
602143	Large	397.5 or 477	2/0	69338-4	Yellow	700
602247	Large	397.5 or 477	4/0	69338-4	Yellow	850
602104	Large	556.5	1/0	69338-4	Yellow	550
602248	Large	556.5	2/0	69338-4	Yellow	700
602115	Large	556.5	4/0	69338-4	Yellow	850
602174	Large	636	2/0	69338-4	Yellow	700
602162	Large	795	2/0	69338-4	Yellow	700
602163	Large	795	4/0	69338-4	Yellow	850
602237	Large	1033.5	4/0	69338-4	Yellow	850

PRODUCT ELECTION INFORMATION: BOLT ACTUATED

	Family	Wedge	Conductor Size (AAC, ACSR)			Bail	Dimensions (inch)			
Part No.	Size	ID	AWG	"Diameter (inch)"	"Diameter (mm)"	Size	Ampacity	A	B	C
2483833-1	Small	G	#6	.184 - .198	4.67 - 5.03	#2	400	5.8	3.8	4.6
2483833-2		F	#4, #2	.198 - .325	5.03 - 8.26	#2	400	5.8	3.8	4.6
2483833-3		E	1/0, 2/0	.316 - .447	8.03 - 11.35	#2	400	5.8	3.8	4.6
2483833-4		D	1/0, 2/0	.368 - .464	9.35 - 11.79	1/0	550	6.1	4.3	4.6
2483833-5		D	3/0, 4/0	.447 - .563	11.35 - 14.30	#2	400	5.8	3.8	4.6
2483833-6		C	3/0	.447 - .522	11.35 - 13.26	1/0	550	6.1	4.3	4.6
2483833-7		C	2/0, 3/0	.414 - .502	10.52 - 12.75	2/0	550**	6.2	4.4	5.2
2483833-8		B	4/0	.522 - .574	13.26 - 14.58	1/0	550	6.1	4.3	4.6
2483833-9		B	4/0	.502 - .563	12.75 - 14.30	2/0	550**	6.2	4.4	5.2
2413387-9	Medium	H	266.8	.586 - .684	14.88 - 17.37	#2	400	7.2	4.2	4.5
2413387-8		G	266.8	.586 - .684	14.88 - 17.37	1/0	550	7.3	4.3	4.6
2413387-6		G	336.4, 350	.642 - .684	16.31 - 17.37	#2	400	7.2	4.2	4.5
2413387-5		F	336.4, 350	.665 - .743	16.89 - 18.87	1/0	550	7.3	4.3	4.6
2413387-4		F	336.4, 350	.642 - .720	16.31 - 18.29	2/0	700	7.4	4.4	5.2
2413387-3		D	336.4, 397.5	.642 - .783	16.31 - 19.88	4/0	850	7.5	4.6	5.4
2413387-2		E	397.5	.720 - .814	18.29 - 20.67	1/0	550	7.3	4.3	4.6
2413387-1		D	397.5	.723 - .846	18.36 - 21.49	2/0	700	7.4	4.4	5.2
1-2413387-0		D	477, 500, 556.5	.772 - .927	19.61 - 23.55	1/0	550	7.3	4.3	4.6
2413418-2	Large	F	795	1.027 - 1.108	26.09 - 28.14	2/0	700	8.7	4.4	5.2
2413418-1		E	795	1.027 - 1.108	26.09 - 28.14	4/0	850	8.5	4.6	5.4

** Current carrying capacity in amperes at 90ºC based upon largest current carrying conductor, ampacity of ball alone is twice that of copper contor of the same size.*

*** Bail de-rated limit of tap run wire.*

AMPACT Stud Disconnect System

FEATURES

- Standard NEMA pad allows use of any size jumper conductor
- Can be easily removed in seconds
- Rated for 750 amps continuous current for demanding applications
- Lug can be attached in either orientation for maximum application flexibility
- System tested to ANSI C119.4
- Stud locking feature allows safe removal and easy hot-stick application
- Easy to park on standard parking stud

APPLICATIONS

- Attached to the circuit conductor using the AMPACT tap, a two-hole NEMA lug can be bolted to the disconnect in either orientation. The disconnect is then plugged onto the stud with hot-sticks or rubber gloves and connected/disconnected in seconds with a few turns of the eyebolt. The stud can be assembled to the line pointing up or down as required.

BENEFITS

- The AMPACT stud disconnect is an addition to the proven wedge pressure system that utilities around the world have counted on since 1958.



REPLACEMENT INFORMATION

Kit MVG 1200	Catalog Number
Replacement Disconnect	83471-1
Replacement Stud	83396-1

Components Catalog Numbers	Catalog Number
3/4 Disconnect MVG1200	83471-1
3/4 Stud	83396-1
1/2 Disconnect MVG900	2182405-1
1/2 Stud	83396-2

INSTRUCTION SHEET 408-9968
ENGINEERING TEST REPORT 502-47000, 502-47453 (1)

PRODUCT SELECTION INFORMATION

Complete Kit Including Tap, Disconnect, Stud Catalog Number	Disconnect	Stud Size	AMPACT Tap Part No.	Run Wires AAC/ACSR
2182452-1	MGV900 PN: 2182405-1 (900 Amps)	1/2" Tinned Copper (Used with 350 kcm jumper or smaller) PN:83396-2	600458	1/0 to 2/0
2182452-2			600465	3/0 to 4/0
2182452-3			1-602031-8	266.8 to 336.4
2182452-4			1-602031-6	477.0 to 556.5
2182452-5			602121-9	795
83470-3	MGV1200 PN: 83471-1 (1200 Amps)	3/4" Tinner Copper (Used with 500 kcm or 750kcm jumper) PN: 83396-1	1-6020131-3	477.0 to 556.5
83470-4			602121-5	795

Note: PN 83471-1 can only be used with 83396-1
PN 2182405-1 can only be used with 83396-2

AMPACT Identifier Plates

FEATURES

- Angled for easy viewing from ground
- Reduces radio frequency interference
- Lightweight
- Applied with AMPACT tool or standard wrench
- Circuit Identification
- Phase Marking
- Switch Identification
- All aluminum construction, black anodized

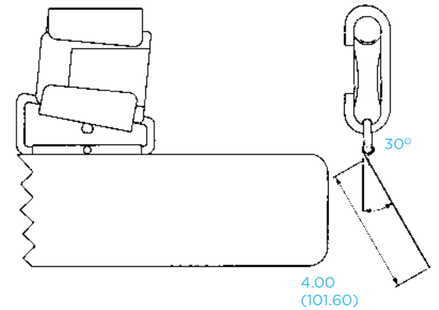
APPLICATIONS

- Can be installed on primary or secondary distribution conductors for field identification of circuits and/or switches.
- The improved identification accuracy can contribute to safer operation of line apparatus especially in congested circuits or multiple switch locations.

BENEFITS

- The AMPACT connectors have been incorporated into the Identifier Plate design creating simple efficient application with the AMPACT tool and cartridge
- The ID Plate is angled for easier viewing from the ground.
- Its flat, black anodized surface provides a sharp contrast to the alpha-numeric characters that can be applied to its surface.





PRODUCT SELECTION INFORMATION

Catalog Number w/AMPACT Connector	Fits Conductor
83005-4	#2-1/0
83005-1	2/0-4/0 AWG
83005-5	4/0-266.8
83005-2	336.4-556.5 AAC
83005-3	795 AAC, ACSR

Plate width – 4.00 (101.60), Plate length – 15.50 (393.70).
Note: Alpha-numeric characters not supplied with ID plate.

AMPACT Deadend Clamp Assembly

FEATURES

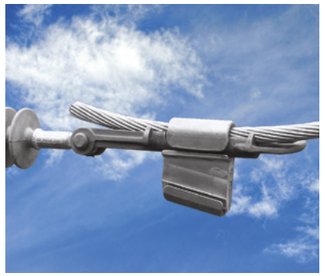
- Installed with standard AMPACT tools
- Simple hot-stick application
- Available as a mechanical or combination mechanical and electrical termination
- Wedge pressure technology
- Positive visual inspection
- Removable without damage to conductor
- Exceeds CSA C83.71-M87 Standard for Deadend Clamps
- Exceeds the electrical and mechanical requirements of ANSI C119.4 and CSA C57 standards

APPLICATIONS

- The AMPACT deadend clamp connector assembly fits standard stranded, All Aluminum Conductors (AAC) and Aluminum Stranded Conductors (ASC), in sizes 266.8, 336.4, 477.0, and 556.5 kcmil.

BENEFITS

- The “C” and “wedge” components come with factory applied inhibitor to enhance continued contact integrity.
- TE’s proven wedge pressure technology and components manufactured from selected aluminum alloys are combined to create a Deadend Clamp that exceeds the mechanical and electrical industry standards.
- The AMPACT deadend clamp connector assembly has been designed to simplify installation and to provide superior performance.
- A quick visual inspection of the lance on the end of the wedge is a positive verification of a proper installation, eliminating the need for torque wrenches or other special tooling.



The pulling eye, an integral part of the Deadend body, is rated at 6,000 lbs, while the Deadend body is rated at 10,000 lbs. The “C” and “wedge” components are not reusable. Replacement “wedge” and “C” components can be obtained by contacting your local TE Connectivity representative

PRODUCT SELECTION INFORMATION

Style	Fits Conductor (AAC/ACSR)[1]	Catalog Number
Deadend Clamp	266.8	83589-1
	336.4	83589-2
	477	83589-3
	556.5	83589-4
	795 ACC	83589-6
	795 ACSR / 954 AAC	83589-7
Deadend Clamp w/Jumper Stud[2] (3/4 [19.05] Plated Cu)	266.8	83590-1
	336.4	83590-2
	477	83590-3
	556.5	83590-4
Deadend Clamp w/Stirrup (2/0 Plated Cu Bail)	266.8	83591-1
	336.4	83591-2
	477	83591-3
	556.5	83591-4

1. Designed to fit AAC/ACSR standard stranded conductor.
2. For additional information refer to AMPACT Stud Disconnect System.
Note: The “C” and “wedge” components are not reusable. Contact your local TE representative for replacement “C” and “wedge” components or for part numbers to connect wire types/sizes not shown.

AMPACT In-Line Disconnect Switch (ILD)

FEATURES

- Installation with standard AMPACT tool
- Pulling-out strength in excess of 7500 lb without slipping or damage to conductor
- Copper disconnect blade assembly suspended below the insulators simplifying the cutting of conductor
- Double string of polymeric insulators prevents rolling of the swtich

APPLICATIONS

- Installed on standard stranded all aluminum conductors (AAC) or aluminum conductor steel reinforced (ACSR) in conductor sizes from 1/0 to 954
- Quick, easy manual or hot-stick application

BENEFITS

- Both mechanical and electrical connection made simultaneously with the AMPACT tap
- No line tensioning devices required for installation



Voltage	15 kV (110 kV BIL), 29 kV (150 kV BIL), 35 kV (200 kV BIL), 46 kV (250 BIL), 69 kV (350 kV BIL)
Current	1200 Amps
Frequency	60Hz
Momentary Current	40,000 Amps
Short Time Current	25,000 Amps, 3 sec.

Technical Documents
Instruction Sheet: PII 56078
Engineering Test Report: 502-47376

Approvals
RUS Listed
ANSI: C119.4, C37.32, C37.34
IEEE: C37.30
CSA: C83.71

PRODUCT SELECTION INFORMATION: ILD 1200 AMPS

Conductors Accommodated			Replacement Taps	15 kV, 110 kV BIL		29 kV, 150 kV BIL		35 kV, 200 kV BIL	
Body Size	ACSR	AAC		With Taps	Without Taps	With Taps	Without Taps	With Taps	Without Taps
Small	266.8 (26/7) 336.4 (18/1), (26/7), (30/7)	397.5 336.4 350	83843-2	1710883-1	1710886-1	1710884-1	1710887-1	1710885-1	1710888-1
X-Large	477.0 (30/1) 556.5 (24/7),(26/7),(30/7) 605.0 (24/7),(26/7) 636 (18/1),(36/1)	600 636 650 700	83843-5	1710883-2	1710886-2	1710884-2	1710887-2	1710885-2	1710888-2
X-Large	605 (30/19) 636 (26/7),(24/7), (30/19) 666.6 (24/7),(26/7) 795 (36/1),(42/7),(45/7)	715.5 750 795	83843-6	1710883-3	1710886-2	1710884-3	1710887-2	1710885-3	1710888-2
X-Large	795 (24/7),(26/7),(30/7), (30/19) (54/7)	954	1-83843-1	1710883-4	1710886-2	1710884-4	1710887-2	1710885-4	1710888-2

Part numbers shown above use Royal Blades.

PRODUCT SELECTION INFORMATION: ILD 900 AMPS

Conductors Accommodated			Deadend Taps	15 kV, 110 kV BIL		29 kV, 150 kV BIL		35 kV, 200 kV BIL		46 kV, 250 kV BIL		69 kV, 350 kV BIL	
Body Size	ACSR	AAC		With Taps	Without Taps	With Taps	WIthout Taps	With Taps	Without Taps	With Taps	Without Taps	With Taps	Without Taps
X-Small	#2 1/0 (6/1) 2/0 (6/1)	#2 1/0 2/0	1-83843-4	1-1710723-1 * 1-1710725-2**	1710722-6* 1710724-6 **	1-1710727-1* 1-1710729-3**	1710726-6* 1710728-6 **	1-1710731-3* 1-1710733-3**	1710730-6 * 1710732- 6 **	1-1710735-0**	1710734-5**	1-1710737-0**	1710736-5**
Small	"3/0 (6/1) 4/0 (6/1)"	4/0	83843-7	1710723-2* 1710725-2**	1710722-2* 1710724-2**	1710727-2* 1710729-2**	1710726-2* 1710728-2**	1710731-2* 1710733-2**	1710730-2* 1710732-2**	1710735-1**	1710734-1**	1710737-1**	1710736-1**
	266.8 (18/1)	266.8	83843-1	1710723-3* 1710725-3**		1710727-3* 1710729-3**		1710731-3* 1710733-3**		1710735-2**		1710737-2**	
	"266.8 (26/7) 336.4 (18/1), (26/7), (30/7)"	336.4, 350, 397.5	83843-2	1710723-4* 1710725-4**		1710727-4* 1710729-4**		1710731-4* 1710733-4**		1710735-3**		1710737-3**	
Large	397.5 (18/1), (24/7), (26/7), (30/7) 477.0 (18/1)	450, 477, 500	83843-3	1710723-5* 1710725-5**	1710722-3* 1710724-3**	1710727-5* 1710729-5**	1710726-3* 1710728-3**	1710731-5* 1710733-5**	1710730-3* 1710732-3**	1710735-4**	1710734-2**	1710737-4**	1710736-2**
	477.0 (26/7) 556.5 (18/1)	556.5	83843-4	1710723-6* 1710725-6**		1710727-6* 1710729-6**		1710731-6* 1710733-6**		1710735-5**		1710737-5**	
X-Large	477.0 (30/7) 556.5 (24/7), (26/7), (30/7) 605.0 (24/7), (26/7) 636 (18/1), (36/1)	600, 636, 650, 700"	83843-5	1710723-7* 1710725-7**	1710722-4* 1710724-4**	1710727-7* 1710729-7**	1710726-4* 1710728-4**	1710731-7* 1710733-7**	"1710730-4* 1710732- 4**"	1710735-6**	1710734-3**	1710737-6**	1710736-3**
	605 (30/19) 636 (26/7), (24/7), (30/19) 666.6 (24/7), (26/7)	715.5, 750, 795	83843-6	1710723-8* 1710725-8**		1710727-8* 1710729-8**		1710731-8* 1710733-8**		1710735-7**		1710737-7**	
	795 (24/7), (26/7), (30/7), (30/19), (54/7)	954	1-83843-1	1710723-9* 1710725-9**		1710727-9* 1710729-9**		"1710731-9* 1710733-9**		1710735-8**		1710737-8**	

*K-line insulators and S&C blades
**K-Line insulators and Royal Blades
Note: For hot-stick work you will need the following: "C" and Wedge Holder 69900, Piggy Back Clamp 69883

AMPACT Fuse In-Line Mount (FILM)

KEY FEATURES

- Install with standard AMPACT tooling anywhere along distribution power line spans
- Quick easy manual or hotstick application
- No line tensioning devices required for installation
- Facilitates easy installation and replacement of industry standard Power Fuses
- SMD-20 TYPE FUSE WITH INVERTED/ HORIZONTAL FITTINGS. (Not included with assembly)

APPLICATIONS

AMPACT Fuse In-Line Mount (FILM) combines the reliability of industry standard power fuse components and a double string of polymeric insulators with the AMPACT dead-end yoke assembly. The result is a fused in-line disconnect that can be installed without the need for tensioning devices. The unit is designed to easily accommodate industry standard fuse barrels in field applications. Standard AMPACT tap application procedures are used to make both electrical and mechanical connections simultaneously. The AMPACT FILM can be installed on standard stranded AAC or ACSR in conductor sizes from 2 to 556.5.

BENEFITS

- Both mechanical and electrical connection made simultaneously with the AMPACT tap
- No line tensioning devices required for installation
- Can be used on radial feeds off of main highways
- Fuse drops down for easy location outage
- Installs in less than 10 minutes



PRODUCT SELECTION INFORMATION

Conductors Accommodated			Replacements Taps	29 kV, 150 kV BIL		L 35 kV, 200 kV BIL	
Body Size	ACSR	AAC		w/Taps	w/o Taps	w/Taps	w/o Taps
X-Small	1/0 (6/1)	1/0	1-83843-0	2182407-7	2182383-4	2182408-7	2182384-4
X-Small	12/0 (6/1)	1/0	1-83843-0	2182407-1	2182383-1	2182408-1	2182384-1
Small	3/0 (6/1) & 4/0 (6/1)	4/0	83843-7	2182407-2	2182383-2	2182408-2	2182384-2
Small	266.8 (18/1)	266.8	83843-1	2182407-3	2182383-2	2182408-3	2182384-2
Small	266.8 (26/7)	336.4, 350	83843-2	2182407-4	2182383-2	2182408-4	2182384-2
Small	336.4 (18/1) (26/7) (30/7)	336.4, 350	83843-2	2182407-4	2182383-2	2182408-4	2182384-2
Large	397.5 (18/1) (24/7) (26/7) (30/7)	450, 477,	83843-3	2182407-5	2182383-3	2182408-5	2182384-3
Large	477.0 (18/1)	500	83843-3	2182407-5	2182383-3	2182408-5	2182384-3
Large	477.0 (26/7)	556.5	83843-4	2182407-6	2182383-3	2182408-6	2182384-3
Large	556.5 (18/1)	556.5	83843-4	2182407-6	2182383-3	2182408-6	2182384-3

TECHNICAL INFORMATION	
Voltage	29 kV (150 kV BIL), 35 kV (200 kV BIL)
Current	200 Amps
Frequency	60Hz
Short-Circuit Interrupting Rating	20kA, 16kA (Asymmetrical)
Short-Circuit Interrupting Rating	16kA, 12.8kA (Symmetrical)
Tensile Rating of Pulling Eye	6000 lbs
Dead-end Yoke assembly Rating	10,000 lbs Tensile
Hot-Stick Applications	C and Wedge Holder 69900
S&C SMD Fuse holder	2182522-1

TECHNICAL DOCUMENTS
Instruction Sheet 408-32171
Test Report 502-47452(I)

APPROVALS
ANSI C119.4
IEEE C37.40, C37.41, C37.46

Terminal Lugs

FEATURES

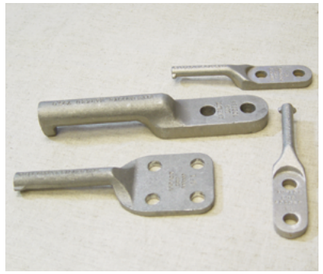
- Easy to install with AMPACT tooling
- Controlled contact pressure
- Aluminum alloy models
- Terminal pads have NEMA drilled bolt patterns

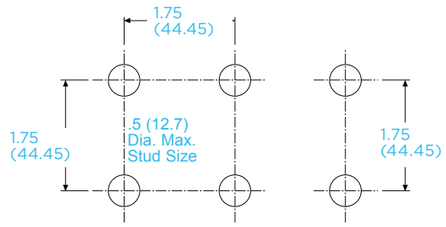
APPLICATIONS

- Use on overhead or pad mounted transformers
- Use as disconnectable tap or jumper connection.

BENEFITS

- Easily removable and relocated





Bolt Hole Patterns

PRODUCT SELECTION INFORMATION

Catalog Number	Shank Size Conductor	Tap Groove	Ampacity*	Paddle Type
602089	#2 thru #6 1/0 thru 4/0 266.8 kcmil	4/0 Str	610	2-Hole Paddle
602097 **569398-1*** **602285**	336.4, 397.5, 477, 556.5 kcmil 636, 795, 954, 1033.5 kcmil	336.4 Str 397.5 795 Str	895 895 1400	2-Hole Paddle
602091	#2 thru #6 1/0 thru 4/0 266.8 kcmil	4/0 Str	610	4-Hole Paddle
602099 **602286** **2182779-1***	336.4, 397.5, 477, 556.5 kcmil 636, 795, 954, 1033.5 kcmil 636, 795, 954, 1033.5 kcmil	336.4 Str 795 Str 795 Str	895 1400 1400	4-Hole Paddle
602093 **602287**	336.4, 397.5, 477, 556.5 kcmil 636, 795, 954, 1033.5 kcmil	336.4 Str 795 Str	895 1400	4-Hole Flag

**Current-carrying capacity in amperes at 90°C*
IS 408-2116
***569398-1 has longer shank*

GelPact Covers

FEATURES

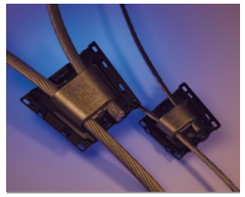
- Made of sturdy, black, UV stable plastic
- GelPact covers are provided in packs of 18 for white and blue and in packs of 12 for yellow.
- These covers are ready to snap on quickly and start providing corrosion protection for your electrical network.
- Feature revolutionary PowerGel sealing gel which provides an excellent moisture seal over a wide temperature range (-40°C to 105°C). PowerGel sealing gel offers excellent insulating properties and acts as a vibration damper, as well.

APPLICATIONS

- Just three sizes of GelPact covers accommodate the entire AMPACT tap product line.
- GelPact W-sized covers fit all white coded taps.
- GelPact B–sized fits all blue-coded AMPACT taps.
- GelPact SMY-sized covers fit 336 up to 605 mcm.
- GelPact XL-795 covers fit 605 to 795 conectors range
- GelPact X-1033 covers fit 1033.5 connectors range

BENEFITS

- GelPact covers provide corrosion protection for AMPACT aluminum taps in severely corrosive environments such as coastal or heavily polluted areas.
- GelPact covers will prevent corrosion from forming on newly installed AMPACT taps in aerial applications.
- For previously installed AMPACT taps, installing a GelPact cover will help to arrest the progress of any corrosion that might be forming in the tap.



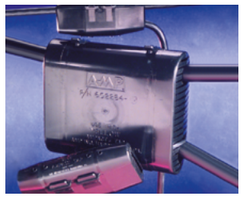
PRODUCT SELECTION INFORMATION

Catalog Number	Product Description
1710500-1	GelPact W, fits all white connectors #6 - 1/0
1710523-1	GelPact B, fits all blue connectors #6 - 4/0
1710501-1	GelPact SMY, fits all yellow connectors 336 - 605
2182763-1	GelPact XL-795, fits all yellow connectors 605 to 795
2182763-2	GelPact XL-1033, fits all yellow connectors 1033.5

Tap Covers

APPLICATIONS

- These tap covers are used to electrically insulate AMPACT taps from neighboring taps, exposed ground conductors, or nearby grounded structures in 600-volt maximum, insulated-conductor overhead applications



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Color Code	Cover Length	Tap Size
83364-1	White	3.25	Type II/ Miniwedge
602080	Blue	4.25	Medium 266.8 and 350
602107	Yellow	6.0	336.4, 477 and 556.5
602284	Yellow	6.5	795 and 1033.5

AMPACT Tool

FEATURES

- Conductor applications imprinted on tap packages
- Packages and labels color coded to match taps to tools and cartridges

APPLICATIONS

- Installs and removes taps even in confined spaces

BENEFITS

- Adaptable for standard hot-stick use
- Lightweight powder-actuated tools require minimum operator effort

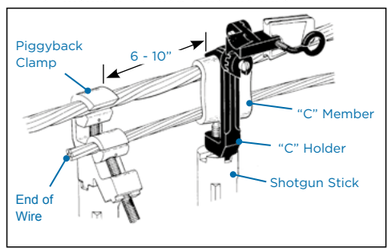


PRODUCT SELECTION INFORMATION

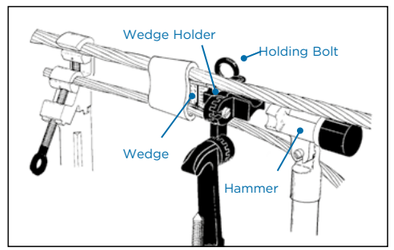
Catalog Number	Product Description	Connects
69437	Small AMPACT Tool (For Red-, White-, and Blue-coded taps)	Aluminum Wire Combinations: #8 — 350 kcmil
69611	Large AMPACT Tool (For Yellow-coded taps only)	Aluminum Wire Combinations: 336.4 — 1192.5, up to 3000 MCM AMPACT EL tap connectors

USING THE AMPACT TOOL WITH THE HOT STICK

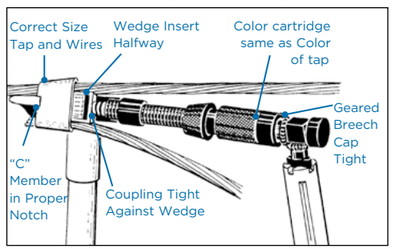
1. Position "piggyback" clamp onto wire. "C" member hooked onto the wire



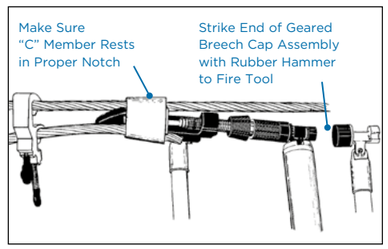
2. Wedge is placed in "C" member.



3. AMPACT tool clamped over the tap.



4. Tap is completed by hammer blow to end of tool.



REPLACEMENT PARTS

Catalog Number	Description
69633-2	Large Tool Head
47667-8	Small Tool Head
69612	Universal Power Unit
308967-1	Breech Assembly
314196-1	Breech Cap Assembly (3-Pc)
5-304668-3	Retaining Spring



69633-2



314196-1, 5-304668-3



308967-1



47667-8



69612

AMPACT EZLoad

FEATURES

- The AMPACT EZLoad tool is a precision designed, powder actuated tool that is robust yet lightweight.
- The tool is designed with a lock and load approach.
- The cartridges are molded of weatherproof polyethylene and packed with propellant and primer.
- The color of the cartridge indicates the strength of the powder charge and corresponds to the color-code of tap sizes with which they are used.

APPLICATIONS

- AMPACT cartridges are color-coded (red etc.) and designed specifically for use in the AMPACT EZLoad tools to install AMPACT taps

BENEFITS

- This all in one design hinges on the power unit and is easily opened and closed to replace the cartridges.
- AMPACT tools are engaged by firing a special powder loaded cartridge within the tool which reduces the time and effort required to tap a power line.
- The compact tools are manufactured in high-grade steel to precise tolerances and are available in two sizes: large head and small head. The same interchangeable power unit is used in both tools.



PRODUCT SELECTION INFORMATION

Catalog Number	Description
1443413-1	AMPACT EZLoad Small tool
1443414-1	AMPACT ZLoad Large tool
1443413-2	AMPACT ZLoad Power k Adapter
1443514-1	AMPACT ZLoad Hot-Stick Adapter Kit (includes Piercer pin guide and cover)
1443470-1	AMPACT ZLoad Hot-Stick Adapter with Power Unit
1443442-1	AMPACT EZLoad Cleaning tool
1443448-1	AMPACT EZLoad Tool repair kit (included Piercer Pin guide, Piercer pin and grub screw)
69610-2	Hot-stick Kit for EZLoad tool
1443412-1	AMPACT EZLoad Power Unit

Cartridges



PRODUCT SELECTION INFORMATION

Catalog Number	Description
69338-5	White
69338-2	Red
69338-1	Blue
69338-4	Yellow

Inhibitor Compound and NEMA Interface Hinge

Inhibitor Can



NEMA Hinge



Inhibitor Bottle

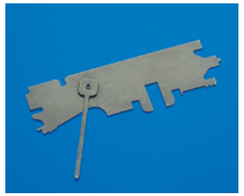


PRODUCT SELECTION INFORMATION

Catalog Number	Description
80665-3	8 oz. (236 ml) plastic bottle aluminum inhibitor compound
80665-2	1 qt (.95 litre) can aluminum inhibitor compound
561118-1*	2-Hole NEMA interface hinge to protect against corrosion between dissimilar metals
69338-4	Yellow

**IS 408-2556*

Cleaning Tool



PRODUCT SELECTION INFORMATION

Catalog Number	Description
314199-1	Universal Cleaning Tool
1443442-1	Ezload Cleaning Tool

Take-Off Clip



PRODUCT SELECTION INFORMATION

Catalog Number	Description
69685-1*	For Blue-Coded Taps (and White-Coded Copper Taps)
69684	For Red-Coded Taps
69947	For Type II White-Coded Taps
69847	For Yellow-Coded Taps

*IS 408-2589
Note: Refer to Customer Manual 409-2106 for AMPACT tap removal.

Auxillary Platform



PRODUCT SELECTION INFORMATION

Catalog Number	Description
306814-3	Auxillary Platform

Notes:
- *Part No. 69437 includes Take-off Clips, Part Nos. 69947 and 69685-1*
- *Part No. 69611 includes Take-off Clip, Part No. 69847*
- *Auxiliary Platform Part No. 306814-3 is required to install red-coded standard taps with Small AMPACT Tool.*
- *Refer to Customer Manual 409-2106 for instructions on AMPACT connector installation and removal.*
- *IS 408-9494 (P/N 314199-1), IS 408-9907 (P/N 69611 and 69437), IS 408-1201 (P/N 69437)*

Accessory Bag



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Size	Description
608338-1	12.5 (317.4) tall, 7 (177.8) dia.	Open type, brass snap-on swivel hook, white canvas
607501-1	12.5 (317.4) tall, 7 (177.8) dia.	Open type, brass snap-on swivel hook
608877-1		AMPACT Tool Kit Box

Hot-Stick

FEATURES

- Adapts AMPACT tools to standard commercial hot stick equipment
- Allows linemen to work in line with conductors instead of across them

APPLICATIONS

- The kit handles AMPACT taps and stirrups from No. 8 to 556.5-27/7 ACSR. (With additional components, it can be used on conductors to 1192.5-45/7 ACSR.)

BENEFITS

- This revolutionary tap installation method cuts down lineman exposure to energized lines.
- AMPACT tap system is adaptable for use with standard hot sticks
- With a simple hot stick adapter kit, the standard glove method is converted to the fastest hot-stick method available.



Accessories must be ordered separately from Hot-Stick Kit. Required for taps and stirrups in 795.0 to 1192.5 kcmil range.

AMPACT BAT HOT STICK ACCESSORIES

Description	Tap Size	Catalog Number
Wedge Holder Small	**4/0 Series**	2480674-1
Wedge Holder Medium	**336-556 Series**	2401416-1
Wedge Holder Large	**795 Series**	2401815-1
"C"Holder	**4/0 to 795 Series**	306350-2
Piggyback Clamp	**4/0 and 336-556 Series**	69816
Piggyback Clamp	**795 Series**	69883
Hammer	**4/0 to 795 Series**	69674

AMPACT FIRED ON HOT STICK ACCESSORIES

Description	Catalog Number
Fired-on Wedge Holder	306348-1
"C" Holder	306350-2
Combination "C" and Wedge Holder	69900
Piggyback Clamp #8 AWG to 556 ACSR	69816
Piggyback Clamp 556 ACSR-1192.5 ACSR	69883
Geared Breach Standard Tool	306347-1
Geared Breach EZ Load	1443514-1
90 Adapter	69833-1
Small Test Holder	306349-2
Large Tool Holder	306349-1
Hammer	69674

306347-1



69833-1



306349-2



306349-1



306350-2



306348-1



69816



69674



69900



69883



1443514-1



2480674-1
2401416-1
2401815-1



Miniwedge Service Entrance Connector System

FEATURES

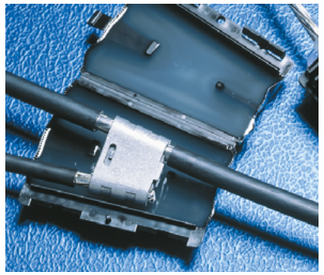
- No special tools
- Removable without conductor loss or damage
- Unique GEO-TAC surface in “C” provides higher tensile and vibration resistance
- Conductor range #14 AWG to 336.4 kcmil
- Separate insulating covers
- Wedge pressure reliability

APPLICATIONS

- Service entrance and street light applications for a range of sizes to connect from #14, #12, and #10 street light tap wire up to a 336.4 thru conductor.
- Aluminum to aluminum, aluminum to copper
- Suitable for guy, messenger and fence grounding (not for direct burial)
- MINIWEDGE connectors are for service entrance applications from #6 to #2 through 2/0 to 4/0.

BENEFITS

- Color-coded for easy connector selection for terminating standard stranded and compacted ACSR, AAAC, AAC and copper conductors.
- To enhance the mechanical and electrical performance of the service entrance connector, the AMP GEO-TAC surface is added to the inside of the “C” component during the manufacturing process.
- The GEO-TAC surface provides superior grip on the conductor to overcome the possibility of failure due to vibration and also increases the contact surface for greater electrical performance under changing load conditions





PARALLEL JAW PLIERS 109717-1
The aluminum alloy “C” and wedge components are installed with parallel jaw pliers

APPROVALS

- UL Listed
- Meets ANSI C119.4
- Part Number Series 83623 and 83630 are Certified by Canadian Standards Association, File No. LR 7189
- RUS

Note: MINIWEDGE connectors are not recommended for copper-to-copper connections.
The MINIWEDGE connector with GHFC MW cover is pictured.

MINIWEDGE CONNECTORS: CORE WIRE RATINGS

Special Triplex
Full ACSR, AAAC or AAC neutral
Full AAC hot wires



		1/0	#2	#4	#6
		1/0 ACSR, AAAC 1/0 AAC, Cu Str 1/0 AAC/Cu cmpt #2 Sol	#2 ACSR, AAAC #2 AAC, Cu Str #2 AAC/Cu cmpt #6 Sol, #4 Sol	#4 ACSR, AAAC #4 AAC, Cu Str #4 AAC/Cu cmpt	#6 ACSR, AAAC #6 AAC, Cu Str #6 AAC/Cu cmpt
#6	#6 AAC, Cu Str #6 ACSR, AAAC #6 Sol, #4 Sol	83592-4	83592-7	83592-9	1-83592-0
#4	#4 AAC, Cu Str #4 ACSR, AAAC #2 Sol	83592-3	83592-6	83592-8	
#2	#2 AAC, Cu Str #2 ACSR, AAAC	83592-2	83592-5		
1/0	1/0 ACSR, AAAC 1/0 AAC	83592-1			

Standard Triplex
Full ACSR, AAAC or AAC neutral
Full AAC hot wires



		4/0	3/0	2/0
		4/0 ACSR, AAAC 4/0 AAC, Cu Str 4/0 AAC cmpt	3/0 ACSR, AAAC 3/0 AAC, Cu Str 3/0 AAC cmpt	2/0 ACSR, AAAC 2/0 AAC, Cu Str
#2	#2 AAC, Cu Str #2 ACSR, AAAC	83631-1	83631-4	83631-7
1/0	1/0 AAC 1/0 ACSR, AAAC 2/0 AAC cmpt	83631-2	83631-5	83631-8
2/0	2/0 AAC 2/0 ACSR, AAAC	83631-3	83631-6	83631-9

Special Triplex (Smooth Body)
Full AAC or cmpt ACSR neutral
Full AAC or cmpt AAC hot wires



		1/0 (S.B.)	#2 (S.B.)	#4	#6
		1/0 ACSR cmpt 1/0 AAC, Cu Str 1/0 AAC/Cu cmpt	#2 ACSR cmpt #2 AAC, Cu Str #2 AAC/Cu cmpt #2 Sol#6 Sol, #4 Sol	#4 ACSR cmpt #4 AAC, Cu Str #4 AAC/Cu cmpt	#6 ACSR cmpt #6 AAC/Cu cmpt #6 AAC, Cu Str
#6	#6 AAC, Cu Str #6 ACC cmpt #6 ACSR cmpt #6 Sol, #4 Sol	83592-4	83592-7	83592-9	1-83592-0
#4	#4 AAC, Cu Str #4 AAC cmpt #4 ACSR cmpt #2 Sol	83592-3	83592-6	83592-8	
#2 (S.B.)	#2 AAC, Cu Str #2 AAC cmpt #2 ACSR cmpt	1-83592-2	1-83592-3		
1/0 (S.B.)	1/0 AAC 1/0 AAC cmpt 1/0 ACSR cmpt 2/0 AAC cmpt	1-83592-1			

MINIWEDGE CONNECTORS: CORE WIRE RATINGS CONTINUED

Special Triplex (Smooth Body)
Full AAC or cmpt ACSR neutral
Full AAC or cmpt AAC hot wires



		4/0 (S.B.)	3/0 (S.B.)	2/0 (S.B.)
		4/0 ACSR cmpt 4/0 AAC, Cu Str 4/0 AAC cmpt	3/0 ACSR cmpt 3/0 AAC, Cu Str 3/0 AAC cmpt	2/0 ACSR cmpt 2/0 AAC, Cu Str 2/0 AAC cmpt
#2 (S.B.)	#2 AAC cmpt #2 AAC, Cu Str #2 ACSR cmpt	1-83631-1	1-83631-4	1-83631-7
1/0 (S.B.)	1/0 AAC cmpt 1/0 AAC 1/0 ACSR cmpt	1-83631-2	1-83631-5	1-83631-8
2/0 (S.B.)	2/0 AAC cmpt 2/0 AAC 2/0 ACSR cmpt 1/0 ACSR, AAAC	1-83631-3	1-83631-6	1-83631-9

Small Street Light Tap

		1/0	#2	#4	#6	#8
		1/0 ACSR, AAAC 1/0 AAC, Cu Str 1/0 AAC/Cu cmpt 2/0 AAC/Cu cmpt	#2 ACSR, AAAC #2 AAC, Cu Str #2 AAC/Cu cmpt #2 Sol	#4 ACSR, AAAC #4 AAC, Cu Str #4 AAC/Cu cmpt #6 Sol, #4 Sol	#6 ACSR, AAAC #6 AAC, Cu Str #6 AAC/Cu cmpt	#8 AAC/Cu Str #8 Al/Cu Sol #6 Al/Cu Sol
#'s 10, 12, 14	#14 Al/Cu Str & Sol #12 Al/Cu Str & Sol #10 Al/Cu Str & Sol	83630-1	83630-3	83630-5	83630-7	83630-9
#8	#8 AAC/Cu Str #8 Al/Cu Sol #6 Al/Cu Sol	83630-2	83630-4	83630-6	83630-8	1-83630-0

Large Asymmetrical Street Light Tap

		336.4	266.8	4/0	3/0	2/0
		336.4 AAC 266.8 ACSR (18/1) 266.8 ACSR (26/7)	266.8 ACSR (18/1) 266.8 AAC 336.4 AAC cmpt	4/0 ACSR 4/0 AAC 266.8 AAC cmpt	3/0 ACSR 3/0 AAC 4/0 AAC cmpt	2/0 ACSR 2/0 AAC 3/0 AAC cmpt
#'s 10, 12, 14	#14 Al/Cu Str & Sol #12 Al/Cu Str & Sol #10 Al/Cu Str & Sol	1-83623-7	1-83623-3	83623-9	83623-5	83623-1
#8	#8 AAC/Cu Str & Sol #6 Al/Cu Sol	1-83623-8	1-83623-4	1-83623-0	83623-6	83623-2
#6	#6 AAC/Cu Str & Sol #6 ACSR #4 Al/Cu Sol	1-83623-9	1-83623-5	1-83623-1	83623-7	83623-3
#4	#4 AAC/Cu Str #4 ACSR #2 Al/Cu Sol	2-83623-0	1-83623-6	1-83623-2	83623-8	83623-4

NOTE: Wire must fit in small Diameter range and Large diameter range. Sum of both wires must fit with in the Min and Max of sum of diameters.

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Wire Marking		Sum of Diameters		Groove 1 Diameter		Groove 2 Diameter	
	Groove 1	Groove 2	max	min	max	min	max	min
Core								
83592-1	1/0	1/0	.796 (20.22)	.696 (17.68)	.398 (10.11)	.315 (8.00)	.398 (10.11)	.315 (8.00)
83592-2	1/0	#2	.723 (18.36)	.618 (15.70)	.398 (10.11)	.315 (8.00)	.336 (8.53)	.260 (6.60)
83592-3	1/0	#4	.656 (16.66)	.549 (13.94)	.398 (10.11)	.315 (8.00)	.268 (6.81)	.205 (5.21)
83592-4	1/0	#6	.602 (15.29)	.498 (12.65)	.398 (10.11)	.315 (8.00)	.215 (5.46)	.138 (3.51)
83592-5	#2	#2	.650 (16.51)	.550 (13.97)	.336 (8.53)	.260 (6.60)	.336 (8.53)	.260 (6.60)
83592-6	#2	#4	.583 (14.81)	.481 (12.22)	.336 (8.53)	.260 (6.60)	.268 (6.81)	.205 (5.21)
83592-7	#2	#6	.529 (13.44)	.429 (10.90)	.336 (8.53)	.260 (6.60)	.215 (5.46)	.138 (3.51)
83592-8	#4	#4	.516 (13.11)	.416 (10.57)	.268 (6.81)	.205 (5.21)	.268 (6.81)	.205 (5.21)
83592-9	#4	#6	.462 (11.73)	.362 (9.19)	.268 (6.81)	.205 (5.21)	.215 (5.46)	.138 (3.51)
1-83592-0	#6	#6	.408 (10.36)	.308 (7.82)	.215 (5.46)	.138 (3.51)	.215 (5.46)	.138 (3.51)
1-83592-1	1/0 SB	1/0 SB	.752 (19.10)	.652 (16.56)	.398 (10.11)	.315 (8.00)	.398 (10.11)	.315 (8.00)
1-83592-2	1/0 SB	#2 SB	.670 (17.02)	.570 (14.48)	.398 (10.11)	.315 (8.00)	.336 (8.53)	.260 (6.60)
1-83592-3	#2 SB	#2 SB	.600 (15.24)	.500 (12.70)	.336 (8.53)	.260 (6.60)	.336 (8.53)	.260 (6.60)
Service Connectors								
83631-1	4/0	#2	.888 (22.56)	.788 (20.02)	.570 (14.48)	.473 (12.01)	.336 (8.53)	.260 (6.60)
83631-2	4/0	1/0	.961 (24.41)	.861 (21.87)	.570 (14.48)	.473 (12.01)	.398 (10.11)	.315 (8.00)
83631-3	4/0	2/0	1.010 (25.65)	.907 (23.04)	.570 (14.48)	.473 (12.01)	.470 (11.94)	.375 (9.53)
83631-4	3/0	#2	.827 (21.01)	.731 (18.57)	.515 (13.08)	.420 (10.67)	.336 (8.53)	.260 (6.60)
83631-5	3/0	1/0	.900 (22.86)	.809 (20.55)	.515 (13.08)	.420 (10.67)	.398 (10.11)	.315 (8.00)
83631-6	3/0	2/0	.949 (24.10)	.849 (21.56)	.515 (13.08)	.420 (10.67)	.470 (11.94)	.375 (9.53)
83631-7	2/0	#2	.772 (19.61)	.682 (17.32)	.470 (11.94)	.375 (9.53)	.336 (8.53)	.260 (6.60)
83631-8	2/0	1/0	.845 (21.46)	.760 (19.30)	.470 (11.94)	.375 (9.53)	.398 (10.11)	.315 (8.00)
83631-9	2/0	2/0	.894 (22.71)	.800 (20.32)	.470 (11.94)	.375 (9.53)	.470 (11.94)	.375 (9.53)
1-83631-1	4/0 SB	#2 SB	.820 (20.83)	.720 (18.29)	.570 (14.48)	.473 (12.01)	.336 (8.53)	.260 (6.60)
1-83631-2	4/0 SB	1/0 SB	.901 (22.89)	.811 (20.60)	.570 (14.48)	.473 (12.01)	.398 (10.11)	.315 (8.00)
1-83631-3	4/0 SB	2/0 SB	.942 (23.93)	.851 (21.62)	.570 (14.48)	.473 (12.01)	.470 (11.94)	.375 (9.53)
1-83631-4	3/0 SB	#2 SB	.756 (19.20)	.660 (16.76)	.515 (13.08)	.420 (10.67)	.336 (8.53)	.260 (6.60)
1-83631-5	3/0 SB	1/0 SB	.837 (21.26)	.759 (19.28)	.515 (13.08)	.420 (10.67)	.398 (10.11)	.315 (8.00)
1-83631-6	3/0 SB	2/0 SB	.878 (22.30)	.799 (20.29)	.515 (13.08)	.420 (10.67)	.470 (11.94)	.375 (9.53)
1-83631-7	2/0 SB	#2 SB	.706 (17.93)	.620 (15.75)	.470 (11.94)	.375 (9.53)	.336 (8.53)	.260 (6.60)
1-83631-8	2/0 SB	1/0 SB	.787 (19.99)	.700 (17.78)	.470 (11.94)	.375 (9.53)	.398 (10.11)	.315 (8.00)
1-83631-9	2/0 SB	2/0 SB	.828 (21.03)	.740 (18.80)	.470 (11.94)	.375 (9.53)	.470 (11.94)	.375 (9.53)
Large Asymmetrical Street Light								
2-83623-0	336.4	#4	.924 (23.47)	.822 (20.88)	.675 (17.15)	.590 (14.99)	.268 (6.81)	.205 (5.21)
1-83623-9	336.4	#6	.870 (22.10)	.771 (19.58)	.675 (17.15)	.590 (14.99)	.215 (5.46)	.138 (3.51)
1-83623-8	336.4	#8	.828 (21.03)	.725 (18.42)	.675 (17.15)	.590 (14.99)	.198 (5.03)	.115 (2.92)
1-83623-7	336.4	#10 - #14	.782 (19.86)	.673 (17.09)	.675 (17.15)	.590 (14.99)	.125 (3.18)	.055 (1.40)
1-83623-6	266.8	#4	.867 (22.02)	.788 (20.02)	.620 (15.75)	.540 (13.72)	.268 (6.81)	.205 (5.21)
1-83623-5	266.8	#6	.813 (20.65)	.737 (18.72)	.620 (15.75)	.540 (13.72)	.215 (5.46)	.138 (3.51)
1-83623-4	266.8	#8	.771 (19.58)	.691 (17.55)	.620 (15.75)	.540 (13.72)	.198 (5.03)	.115 (2.92)
1-83623-3	266.8	#10-#14	.725 (18.42)	.639 (16.23)	.620 (15.75)	.540 (13.72)	.125 (3.18)	.055 (1.40)
1-83623-2	4/0	#4	.821 (20.85)	.720 (18.29)	.570 (14.48)	.473 (12.01)	.268 (6.81)	.205 (5.21)
1-83623-1	4/0	#6	.767 (19.48)	.669 (16.99)	.570 (14.48)	.473 (12.01)	.215 (5.46)	.138 (3.51)
1-83623-0	4/0	#8	.725 (18.42)	.623 (15.82)	.570 (14.48)	.473 (12.01)	.198 (5.03)	.115 (2.92)
83623-9	4/0	#10-#14	.679 (17.25)	.571 (14.50)	.570 (14.48)	.473 (12.01)	.125 (3.18)	.055 (1.40)
83623-8	3/0	#4	.760 (19.30)	.662 (16.81)	.515 (13.08)	.420 (10.67)	.268 (6.81)	.205 (5.21)
83623-7	3/0	#6	.706 (17.93)	.611 (15.52)	.515 (13.08)	.420 (10.67)	.215 (5.46)	.138 (3.51)
83623-6	3/0	#8	.664 (16.87)	.565 (14.35)	.515 (13.08)	.420 (10.67)	.198 (5.03)	.115 (2.92)
83623-5	3/0	#10 - #14	.618 (15.70)	.513 (13.03)	.515 (13.08)	.420 (10.67)	.125 (3.18)	.055 (1.40)
83623-4	2/0	#4	.705 (17.91)	.613 (15.57)	.470 (11.94)	.375 (9.53)	.268 (6.81)	.205 (5.21)
83623-3	2/0	#6	.651 (16.54)	.562 (14.27)	.470 (11.94)	.375 (9.53)	.215 (5.46)	.138 (3.51)
83623-2	2/0	#8	.609 (15.47)	.516 (13.11)	.470 (11.94)	.375 (9.53)	.198 (5.03)	.115 (2.92)
83623-1	2/0	#10 - #14	.563 (14.30)	.464 (11.79)	.470 (11.94)	.375 (9.53)	.125 (3.18)	.055 (1.40)
Small Street Light								
83630-1	1/0	#10-#14	.514 (13.06)	.400 (10.16)	.398 (10.11)	.315 (8.00)	.125 (3.18)	.055 (1.40)
83630-2	1/0	#8	.560 (14.22)	.460 (11.68)	.398 (10.11)	.315 (8.00)	.198 (5.03)	.115 (2.92)
83630-3	#2	#10-#14	.441 (11.20)	.332 (8.43)	.336 (8.53)	.260 (6.60)	.125 (3.18)	.055 (1.40)
83630-4	#2	#8	.487 (12.37)	.384 (9.75)	.336 (8.53)	.260 (6.60)	.198 (5.03)	.115 (2.92)
83630-5	#4	#10-#14	.374 (9.50)	.274 (6.96)	.268 (6.81)	.205 (5.21)	.125 (3.18)	.055 (1.40)
83630-6	#4	#8	.420 (10.67)	.320 (8.13)	.268 (6.81)	.205 (5.21)	.198 (5.03)	.115 (2.92)
83630-7	#6	#10-#14	.320 (8.13)	.220 (5.59)	.215 (5.46)	.138 (3.51)	.125 (3.18)	.055 (1.40)
83630-8	#6	#8	.366 (9.30)	.266 (6.76)	.215 (5.46)	.138 (3.51)	.198 (5.03)	.115 (2.92)
83630-9	#8	#10-#14	.278 (7.06)	.178 (4.52)	.198 (5.03)	.115 (2.92)	.125 (3.18)	.055 (1.40)
1-83630-0	#8	#8	.324 (8.23)	.224 (5.69)	.198 (5.03)	.115 (2.92)	.198 (5.03)	.115 (2.92)

GHFC MW Closure

FEATURES

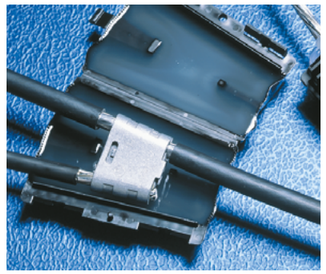
- Simply install by snapping the closure over the connector.

APPLICATIONS

- Specifically designed to provide sealing and corrosion protection for MINIWEDGE connectors installed overhead for corrosion protection or in direct buried applications up to 1000 volts

BENEFITS

- Suitable for aluminum-to-aluminum and aluminum-to-copper connections.
- Fits most MINIWEDGE connector applications.



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Part Number	Description	Main	Tap	Std. Pack
GHFC-MW	3-1199125-2	Gel cover for sealing and insulating	#8-4/0 (10-95)	#14-2/0 (1.5-70)	10

ADDITIONAL PRODUCT INFORMATION

• Package does not contain MINIWEDGE connectors, which must be ordered separately
• Standard package: 10 kits/box
• Related test reports: EDR-5340, 502-47233

Copper Bonded Steel Ground Rods

FEATURES

- High strength steel core with molecularly bonded 99.9 % pure copper layer
- Excellent coating adhesion - remains intact when driven or bent
- Couplings available for both tapered and sectional ground rods
- Length: 4, 5, 6, 8, 10 feet (customization possible)
- Sizes: 1/2", 5/8" & 3/4"
- Copper plating thickness of 10 and 13 mil

APPLICATIONS

- Key component in an electrical grounding installation, which dissipates any fault current safely into the surrounding ground
- Helps prevent damage to facilities and equipment or shock hazards to people and livestock in the vicinity
- Used to control voltage distribution in the ground for step and touch voltage mitigation.

BENEFITS

- Manufactured from high strength steel which allows them to be driven deep into ground.
- The thickness of the copper layer is minimum 10 mil for all UL Listed rods which also ensures adequate corrosion protection for the rod



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Tapered Rod

Catalog Number	Nominal Diameter (Inch)	Length L Ft (m)	Plating Thickness (mil)	Actual Diameter ØD mm (inch)	Weight per rod lb (Kg)
CGR1204U10	1/2	4 (1.22)	10	0.5 (12.7)	2.73 (1.24)
CGR1205U10	1/2	5 (1.5)	10	0.5 (12.7)	3.39 (1.54)
CGR1205U13	1/2	5 (1.5)	13	0.5 (12.7)	3.39 (1.54)
CGR1206U10	1/2	6 (1.8)	10	0.5 (12.7)	4.08 (1.85)
CGR1208U10*	1/2	8 (2.4)	10	0.5 (12.7)	5.40 (2.45)
CGR1210U10*	1/2	10 (3.05)	10	0.5 (12.7)	6.75 (3.06)
CGR5804U10	5/8	4 (1.22)	10	0.56 (14.2)	3.37 (1.53)
CGR5805U10	5/8	5 (1.5)	10	0.56 (14.2)	4.23 (1.92)
CGR5806U10	5/8	6 (1.8)	10	0.56 (14.2)	5.07 (2.3)
CGR5808U10*	5/8	8 (2.4)	10	0.56 (14.2)	6.83 (3.1)
CGR5808U13*	5/8	8 (2.4)	13	0.56 (14.2)	6.83 (3.1)
CGR5810U10*	5/8	10 (3.05)	10	0.56 (14.2)	8.51 (3.86)
CGR5810U13*	5/8	10 (3.05)	13	0.56 (14.2)	8.51 (3.86)
CGR3404U10	3/4	4 (1.2)	10	0.68 (17.3)	5.05 (2.29)
CGR3405U10	3/4	5 (1.5)	10	0.68 (17.3)	6.26 (2.84)
CGR3406U10	3/4	6 (1.8)	10	0.68 (17.3)	7.47 (3.39)
CGR3408U10*	3/4	8 (2.4)	10	0.68 (17.3)	10.05 (4.56)
CGR3408U13*	3/4	8 (2.4)	13	0.68 (17.3)	10.05 (4.56)
CGR3410U10*	3/4	10 (3.05)	10	0.68 (17.3)	12.65 (5.74)
CGR3410U13*	3/4	10 (3.05)	13	0.68 (17.3)	12.65 (5.74)

*cUL Listing applies only to 10' rods.

Copper Bonded Steel Ground Rods

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Sectional Rod						
Catalog Number	**Nominal Diameter (Inch)**	**Length L Ft (m)**	**Plating Thickness (mil)**	**Actual Diameter ØD mm (inch)**	**Thread Size TS (UNC)**	**Weight per rod lb (Kg)**
CGR1204S10	1/2	4 (1.22)	10	0.5 (12.7)	9/16	2.75 (1.25)
CGR1205S10	1/2	5 (1.5)	10	0.5 (12.7)	9/16	3.42 (1.55)
CGR1206S10	1/2	6 (1.8)	10	0.5 (12.7)	9/16	4.08 (1.85)
CGR1208S10*	1/2	8 (2.4)	10	0.5 (12.7)	9/16	5.49 (2.49)
CGR1210S10*	1/2	10 (3.05)	10	0.5 (12.7)	9/16	6.85 (3.11)
CGR5804S10	5/8	4 (1.22)	10	0.56 (14.2)	5/8	344 (1.56)
CGR5805S10	5/8	5 (1.5)	10	0.56 (14.2)	5/8	4.23 (1.92)
CGR5806S10	5/8	6 (1.8)	10	0.56 (14.2)	5/8	5.07 (2.3)
CGR5808S10*	5/8	8 (2.4)	10	0.56 (14.2)	5/8	6.83 (3.1)
CGR5808S13*	5/8	8 (2.4)	13	0.56 (14.2)	5/8	6.83 (3.1)
CGR5810S10*	5/8	10 (3.05)	10	0.56 (14.2)	5/8	8.53 (3.87)
CGR5810S13*	5/8	10 (3.05)	13	0.56 (14.2)	5/8	8.53 (3.87)
CGR3404S10	3/4	4 (1.2)	10	0.68 (17.3)	3/4	5.05 (2.29)
CGR3405S10	3/4	5 (1.5)	10	0.68 (17.3)	3/4	6.26 (2.84)
CGR3406S10	3/4	6 (1.8)	10	0.68 (17.3)	3/4	7.47 (3.39)
CGR3408S10*	3/4	8 (2.4)	10	0.68 (17.3)	3/4	10.07 (4.57)
CGR3410S10*	3/4	10 (3.05)	10	0.68 (17.3)	3/4	12.54 (5.69)

*cUL Listing applies only to 10' rods.

AMPACT Copper Wire Taps

FEATURES

- Compact, lightweight application tool permits easy installation almost anywhere, without bulky equipment, heat, or external power
- AMPACT copper taps are made of quality alloys for low resistivity and superior corrosion resistance
- A locking tab prevents the tapered locked wedge from loosening once it has been driven into position
- The tap's "C" member is composed of an aluminum bronze alloy and the wedge of a copper alloy very close to pure copper.
- Built-in spring tension causes the tap to maintain constant mechanical pressure for optimum electrical conductivity.
- Resist corrosion and will not loosen.

APPLICATIONS

- Unique design incorporating a tapered "C" member and wedge, provides firm, sure contact for consistent, all weather, wire-to-wire, low resistance grounding connections
- The taps will provide secure connections on both stranded wire or solid rod.

BENEFITS

- Taps will not penetrate copper plating, allowing secure connections from copper conductors to ground rods, reinforcing bars or conductors of any type
- Electrical joints are stable and effective for optimum electrical contact, even under conditions of creep and cold flow.
- Connectors may be checked visually — speeding inspection and practically eliminating callbacks
- Simple installation system greatly reduces exposure to energized lines
- When properly matched and applied, AMPACT taps exceed the current-carrying capacity of the conductors they are connecting.
- Taps stay permanently locked during power surges, yet may be removed if necessary without damage to cables or rods.



Listed by Underwriters Laboratories Inc., File No. E69905

Certified by Canadian Standards Association, File No. LR 56476
REA Letter of Technical Acceptance (Grounding Taps)

GROUND ROD APPLICATIONS, COPPER-CLAD: DIMENSIONS IN INCHES (MM)

Designated Size	**Wire Size**	**Actual Diameter**
3/8 (9.53)	1/0 AWG	.355 (9.02)
1/2 (12.70)	3/0 AWG	.475 (12.06)
5/8 (15.88)	250 kcmil	.563 (14.30)
3/4 (19.05)	350 kcmil	.682 (17.32)
Galvanized Steel		
3/8 (9.53)	1/0 AWG	.375 (9.53)
1/2 (12.70)	3/0 AWG	.500 (12.70)
5/8 (15.88)	300 kcmil	.625 (15.88)
3/4 (19.05)	450 kcmil	.750 (19.05)

Technical Documents
Customer Manual: 409-2106
Department Publications: 410-5810, 410-5811
Product Specifications: 108-13011, 108-13012, 108-13015
Safety Publication: 125-6217
General Publication: 408-3010-1 through -4

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Groove Size kcmil or AWG	**Groove Code**	**Conductor Diameter**	
		Min	**Max**
500	A	.785 (19.9)	.813 (20.7)
450	B	.745 (18.9)	.784 (19.9)
400	E	.700 (17.8)	.744 (18.9)
350	G	.650 (16.5)	.699 (17.8)
300	H	.620 (15.7)	.649 (16.5)
250	K (R)††	.561 (14.2)	.625 (15.9)
4/0	L	.506 (12.9)	.560 (14.2)
3/0	M	.451 (11.5)	.505 (12.8)
2/0	N	.401 (10.2)	.450 (11.4)
1/0	O	.355 (9.0)	.400 (10.2)
No. 2	T	.280 (7.1)	.354 (9.0)
No. 4	W	.216 (5.5)	.279 (7.1)
No. 6	X	.182 (4.6)	.215 (5.5)

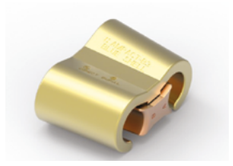
AMPACT COPPER TAP SELECTION FOR WIRE TO GROUND ROD† OR SOLID PIN

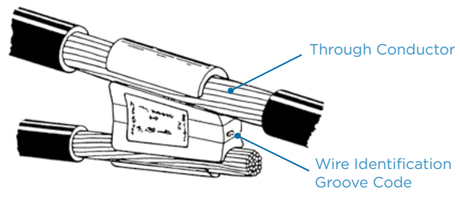
Copper Conductor (kcmil/AWG)	3/8"	1/2"	5/8"		3/4"	
	Ground Rod/Pin Dia. Range .355-.375 (9.02-9.53)	Ground Rod/Pin Dia. Range .475-.500 (12.07-12.7)	Ground Rod Dia. .563 (14.3)	Ground Rod/Pin Dia. .625 (15.88)	Ground Rod Dia. .682 (17.32)	Ground Rod/Pin Dia. .750 (19.05)
500	1-276337-4	1-276337-3	276337-9	1-276337-2	1-276337-1	276337-1
450	2-276337-5	2-276337-4	2-276337-3	2-276337-2	2-276337-1	1-276337-9
400	3-276337-7	3-276337-5	3-276337-3	3-276337-2	3-276337-1	2-276337-0
350	4-276337-9	4-276337-7	4-276337-5	4-276337-4	4-276337-3	2-276337-1
300	6-276337-0	5-276337-8	5-276337-6	5-276337-5	4-276337-4	2-276337-2
250	275187-4	275187-2	2-275187-8	5-276337-6	4-276337-5	2-276337-3
4/0	275187-9	275187-7	275187-1	5-276337-7	4-276337-6	276337-2
3/0	1-275187-3	1-275187-1	275187-2	5-276337-8	4-276337-7	2-276337-4
2/0	1-275187-6	1-275187-2	275187-3	5-276337-9	4-276337-8	276337-3
1/0	1-275187-8	1-275187-3	275187-4	6-276337-0	4-276337-9	2-276337-5
No. 2	2410368-1	1-275187-4	275187-5	6-276337-2	5-276337-1	276337-4
No. 4	2410368-1	3-275187-6	3-275187-0	6-276337-4	5-276337-3	2-276337-8
No. 6	2410368-2	3-275187-7	3-275187-1	6-276337-5	5-276337-4	2-276337-9

†Some Ground Rods have a designated or descriptive diameter that is different from the Actual Diameter. The Actual Diameter must be determined and used with the top chart for correct tap selection.

AMPACT COPPER TAP SELECTION FOR WIRE-TO-WIRE APPLICATIONS

Typical Example:
500 to 350 kcmil = Groove Code AG = Part No. 1-276337-1





	White Shells (69338-5)								Blue Shells (69338-1)					Yellow Shells (69338-4)
Wire Size	X 5,6	W 4	T 2	O 1/0	N 2/0	M 3/0	L 4/0	K (R) 250	H 300	G 350	E 400	B 450	A 500	750 (61)
X 5,6	2410368-4	2410368-4	2410368-3	2410368-2	4-275187-0	3-275187-7	3-275187-4	3-275187-1	6-276337-5	5-276337-4	4-276337-2	2-276337-9	1-276337-8	1-81723-3*
W 4		2410368-3	2410368-2	2410368-1	3-275187-9	3-275187-6	3-275187-3	3-275187-0	6-276337-4	5-276337-3	4-276337-1	2-276337-8	1-276337-7	1-81723-3*
T 2			2410368-1	2410368-1	1-275187-7	1-275187-4	1-275187-0	275187-5	6-276337-2	5-276337-1	3-276337-9	276337-4	276337-8	1-81723-2*
0 1/0				1-275187-8	1-275187-6	1-275187-3	275187-9	275187-4	6-276337-0	4-276337-9	3-276337-7	2-276337-5	1-276337-4	1-81723-2*
N 2/0					1-275187-5	1-275187-2	275187-8	275187-3	5-276337-9	4-276337-8	3-276337-6	276337-3	276337-7	1-81723-1*
M 3/0						1-275187-1	275187-7	275187-2	5-276337-8	4-276337-7	3-276337-5	2-276337-4	1-276337-3	1-81723-0*
L 4/0							275187-6	275187-1	5-276337-7	4-276337-6	3-276337-4	276337-2	276337-6	81723-9*
K (R) 250								2-275187-8	5-276337-6	4-276337-5	3-276337-3	2-276337-3	276337-9	81723-8*
H 3 00									5-276337-5	4-276337-4	3-276337-2	2-276337-2	1-276337-2	81723-7
G 350										4-276337-3	3-276337-1	2-276337-1	1-276337-1	81723-6
E 400											3-276337-0	2-276337-0	1-276337-0	81723-5
B 450												1-276337-9	276337-1	81723-4
A 500													276337-5	81723-2
750 (61)														81723-1

AMPACT COPPER WIRE TAPS

Tap	Cartridge
275187-1	69338-5
275187-2	69338-5
275187-3	69338-5
275187-4	69338-5
275187-5	69338-5
275187-6	69338-5
275187-7	69338-5
275187-8	69338-5
275187-9	69338-5
1-275187-0	69338-5
1-275187-1	69338-5
1-275187-2	69338-5
1-275187-3	69338-5
1-275187-4	69338-5
1-275187-5	69338-5
1-275187-6	69338-5
1-275187-7	69338-5
1-275187-8	69338-5
2-275187-8	69338-5
3-275187-0	69338-5
3-275187-1	69338-5
3-275187-3	69338-5
3-275187-4	69338-5
3-275187-6	69338-5
3-275187-7	69338-5
3-275187-9	69338-5
4-275187-0	69338-5
276337-1	69338-1
276337-2	69338-1
276337-3	69338-1
276337-4	69338-1
276337-5	69338-1
276337-6	69338-1
276337-7	69338-1
276337-8	69338-1
276337-9	69338-1
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1-276337-1	69338-1
1-276337-2	69338-1
1-276337-3	69338-1
1-276337-4	69338-1
1-276337-7	69338-1
1-276337-8	69338-1

Tap	Cartridge
1-276337-9	69338-1
2-276337-0	69338-1
2-276337-2	69338-1
2-276337-3	69338-1
2-276337-4	69338-1
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3-276337-5	69338-1
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3-276337-7	69338-1
3-276337-9	69338-1
4-276337-1	69338-1
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4-276337-9	69338-1
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5-276337-3	69338-1
5-276337-4	69338-1
5-276337-5	69338-1
5-276337-6	69338-1
5-276337-7	69338-1
5-276337-8	69338-1
5-276337-9	69338-1
6-276337-0	69338-1
6-276337-2	69338-1
6-276337-4	69338-1
6-276337-5	69338-1
2410368-1	69338-5
2410368-2	69338-5
2410368-3	69338-5
2410368-4	69338-5

Copper Terminal Lugs

FEATURES

- Controlled contact pressure
- NEMA-type terminal

APPLICATIONS

- Use as disconnectable tap or jumper connection

BENEFITS

- Easily removable and relocated
- Easy to install with AMPACT tooling



PRODUCT SELECTION INFORMATION

Catalog Number	Shank Size Conductor	Tap Groove	Paddle Type
602089-3	#2 to 500 kcmil Copper Cable	4/0 STR	Copper 2-Hole Paddle
602099	#2 to 500 kcmil Copper Cable	4/0 STR	Copper 4-Hole Paddle

SHEAR-LOK Copper Tap/Grounding Connectors

FEATURES

- Wedge Pressure Technology
- Shear-head bolt—controlled torque
- Removable without conductor damage
- No special tools

APPLICATIONS

- This family of connectors is ideal for pole grounds, transmission grounding, Telco and CATV applications where connections must be made between conductor and rods, specifically in the range of #10, #6, #4, to both 5/8" and 3/4" copper clad galvanized rods.
- Developed for applications in the power utility industry where connectors are required to withstand mid-range (20 kA symmetrical RMS) magnitudes of fault current.

BENEFITS

- Application not inhibited by disfigured ground rod end
- Taps into existing ground conductors



File No. E69905 Grounding & Bonding Including Direct Burial.

Certified by Canadian Standards Association.

PRODUCT SELECTION INFORMATION: DIMENSION IN INCHES (MM)

Catalog Number	Connects Rod To	Conductor
83000-1*	5/8" Cu Clad Dia .562 (14.30)	1/0 Str.
80408-2*†	5/8" Cu Clad Dia .562 (14.30)	#6 Sol. or Strd. or #4 Sol. or Strd.
80408-2*†	5/8" Cu Galv. Dia .562 (15.88)	#6 Sol. or Strd.
80408-3	3/4" Cu Clad Dia .682 (17.32)	#6 Sol. or Strd.
80408-4*†	3/4" Cu Clad Dia .682 (17.32)	#4 Sol. or Strd.
80408-4*†	3/4" Galv. Dia .750 (19.05)	#6 Sol. or Strd.
80408-5	3/4" Galv. Dia .750 (19.05)	#2 Sol, Str CU
80408-6*	3/4" Cu Clad Dia .682 (17.32)	1/0 Sol. Str Cu .0334 TDC
80408-7	5/8" Cu Clad Dia .562 (14.30)	#6 Sol., #8 Sol., Strd. or #10 Sol., Strd.
80408-8	5/8" Cu Clad Dia .562 (14.30)	#2 Sol, Str Cu

**UL Listed File No. E69905 Grounding & Bonding Including Direct Burial*
† CSA Certified

TECHNICAL DOCUMENT
Instruction Sheet 408-9921

AMP Weld Exothermically Welded Grounding Connections

FEATURES

- Products tested to IEEE 837-2014
- Premium weld material
- Complete fusion of copper conductors
- Harsh environment testing protocol
- cUL 467 Listed
- Refer to Catalog EPP-2951for more details

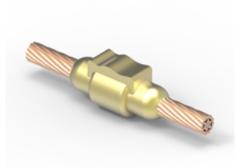
APPLICATIONS

- Substation
- Transmission
- Lightning Protection
- Telecommunications
- Datacomm
- Commercial / Industrial

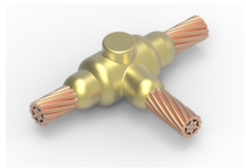
BENEFITS

- Low resistance, superior ampacity connections
- Permanent welded connections
- No external power source required
- Tooling - improved ergonomics
- Visual inspection

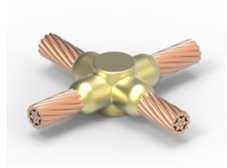
CABLE TO CABLE



SH

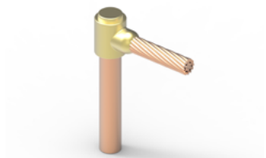


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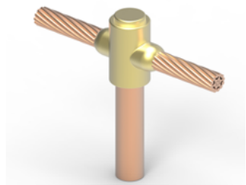


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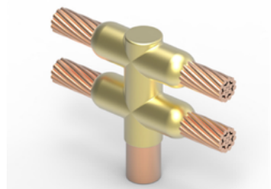
CABLE TO GROUND ROD



GE

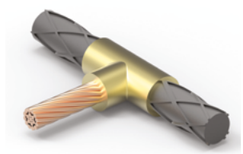


GC



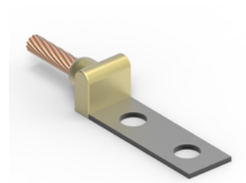
GC4

CABLE TO REBAR



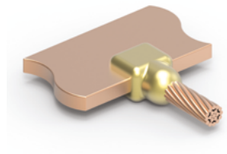
RTE

CABLE TO LUG



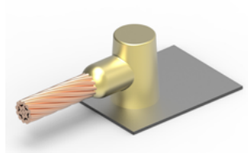
LBT

CABLE TO BUSBAR



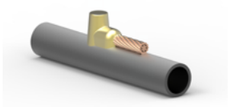
WBE

CABLE TO STEEL SURFACE



HE

CABLE TO STEEL PIPE



HE

BUSBAR TO BUSBAR



BBE

WRENCH-LOK Electrical Grounding Connectors

FEATURES

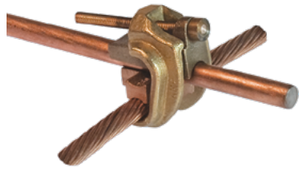
- Uses a specially designed shear-head bolt to drive a tapered wedge into the connector body
- WRENCH-LOK connectors require no special training, no special tools, no auxiliary power, and they can be installed in any weather.

APPLICATIONS

- The product line offers options to connect conductor- to-conductor or conductor-to-ground rod.

BENEFITS

- Provides a superior, fool-proof connection while reducing application time dramatically
- All that's needed to apply it is a common ratchet or socket wrench
- When the connection is tightened to the proper torque, the bolt head shears off, giving a positive visual indication of a perfect connection
- No need to change connector styles, molds or tooling.



Listed by Underwriters Laboratories Inc., File No. E69905

REA

Meets requirements of IEEE STD 837

Certified by Canadian Standards Association, File No. LR56476

TEST RESULTS FOR COPPER GROUND GRID CONNECTORS

IEEE Standard 837	Overall, connectors meet all requirements necessary to be considered qualified for permanent grounding connections used in substation grounding.
Mechanical Pullout	Connectors exceeded min. standard pullout requirements by wide margin.
Electromagnetic Force	Connectors withstood high mechanical and heating stresses of short circuit currents, well within standard.
Sequential Tests	Current-Temperature Cycling Connectors ran much cooler than control conductor and resistance remained low and stable. Freeze-Thaw Resistance of connectors remained stable, demonstrating connectors are not affected by extreme temperature changes. Corrosion-Nitric Acid Acid did not penetrate contact interface and resistance remained stable. Fault Current Connectors withstood severe mechanical and heating stresses with very slight increase in joint resistance, well within standard.
Thermal Shock and Accelerated Corrosion	Stable performance indicates connectors will not be adversely affected by extreme environmental conditions.
Torque of Bolt vs. Resistance of Connection	Connection resistance stable at point much below nominal torque.
Torque of Bolt vs. Deflection	Connector designed with sufficient strength and spring qualities to maintain body resilient contact force for dependable, long-term connection.
Tensile vs. Deflection	Connector body designed with sufficient strength to withstand extreme overload mechanical forces.

TECHNICAL DOCUMENT
Department Publication: 410-5812

Instruction Sheet: 408-9504

PRODUCT SELECTION INFORMATION

GROUND ROD-TO-CONDUCTOR

3/8		1/2		5/8		3/4		
Copper Clad .355 (9.02)	Galv. Steel .375 (9.52)	Copper Clad .475 (12.06)	Galv. Steet .500 (12.70)	Copper Clad .563 (14.30)	Galv. Steel .625 (15.88)	Copper Clad .682 (17.32)	Galv. Steel .750 (19.05)	Conductor
83747-2	83747-2	83747-4	83747-4	83749-1	83749-2	83749-3	83749-4	#2 sol, str, cmpt
83747-3	83747-3	83749-1	83749-1	83749-2	83749-3	83749-4	83748-3	1/0 str, cmpt
83747-4	83747-4	83749-2	83749-2	83749-3	83748-1	83748-3	83748-4	2/0 str, cmpt
		83749-2	83749-3	83748-1	83748-2	83748-4	83751-1	3/0 str, cmpt
		83748-1	83748-1	83748-2	83748-4	83751-1	83751-2	4/0 str, cmpt
				83750-1	83748-4	83751-1	83751-2	250 compacted
				83750-1	83751-1	83751-2	83751-3	250 str
					83751-1	83751-2	83751-3	300 compacted
					83751-2	83751-3	83751-4	300 str
					83751-2	83751-3	83751-4	350 compacted
						83751-3	83750-2	350 str
						83751-3	83751-4	400 compacted
							83750-3	500 str

CONDUCTOR-TO-CONDUCTOR (STANDARD ROUND)

#2 sol,str	1/0 str	2/0 str	3/0 str	4/0 str	250 str	300 str	350 str	400 str	450 str	500 str	Conductor
83747-1	83747-2	83747-2	83747-3	83747-4	83747-1	83749-2	83749-3	83749-4	83749-4	-	#2 sol, str
	83747-3	83747-2	83747-4	83749-1	83749-2	83749-3	83748-1	83749-3	83749-3	83751-1	1/0 str
		83747-3	83749-1	83749-2	83749-3	83748-1	83748-2	83748-3	83748-4	83751-1	2/0 str
			83749-2	83749-3	83748-1	83748-2	83748-3	83748-4	83751-1	83751-2	3/0 str
				83748-2	83748-2	83748-4	83751-1	83751-1	83751-2	83751-3	4/0 str
					83750-1	83751-1	83751-2	83751-2	83751-3	83751-4	250 str
						83750-2	83751-2	83751-3	83751-4	83750-2	300 str
							83751-3	83751-4	83750-2	83750-3	350 str
								83750-2	83750-4	83750-5	400 str
									83750-5	83750-4	450 str
										83750-6	500 str

CONDUCTOR-TO-CONDUCTOR (COMPACTED)

#2	1/0	2/0	3/0	4/0	250	300	350	400	450	500 str	Conductor
83747-1	83747-2	83747-2	83747-3	83747-4	83747-4	83749-1	83749-2	83749-3	83749-3	83749-4	#2
	83747-3	83747-3	83747-4	83749-1	83749-2	83749-2	83749-3	83749-1	83749-1	83749-3	1/0
		83747-4	83747-1	83749-2	83749-2	83749-3	83748-1	83748-2	83748-3	83748-4	2/0
			83749-2	83749-3	83748-1	83748-1	83748-2	83748-3	83748-4	83751-1	3/0
				83748-1	83748-2	83748-2	83748-4	83748-4	83751-1	83751-1	4/0
					83750-1	83750-1	83748-4	83751-1	83751-2	83751-2	250
						83750-1	83751-1	83751-1	83751-2	83751-3	300
							83751-2	83751-2	83751-3	83751-3	350
								83751-3	83751-4	83749-4	400
									83750-2	83750-2	450
										83750-3	500

REPLACEMENT BOLTS PART NUMBERS
Small Body 81249-4
Large Body 81249-2

Conductors listed are for Stranded Copper Standard Round

PRODUCT SELECTION INFORMATION

Catalog Number Small Body	Description Standard Round	Compacted	Conductor to Ground Rod
83747-1	#2 sol., str.-#2 sol., str.	2-#2	
83747-2	1/0, 2/0 str.-#2 sol., str.	1/0, 2/0-#2	3/8 Clad or Galv.-#2
83747-3	1/0, 2/0 str.-1/0 str.	1/0, 2/0-1/0	3/8 Clad or Galv.-1/0
	3/0 str.-#2 sol, str.	3/0-#2	
83747-4	2/0 str.-2/0 str.	2/0-2/0	3/8 Clad or Galv.-2/0
	3/0 str.-1/0 str.	3/0-1/0	1/2 Clad or Galv.-#2
	4/0 str.-#2 sol, str.	4/0, 250-#2	
83749-1	3/0 str.-#2 str.	3/0-2/0	1/2 Clad or Galv.-1/0
	4/0 str.-1/0 str.	4/0-1/0	5/8 Clad - #2
	250 str.-#2 sol., str.	300-#2	
83749-2	3/0 str.-3/0,str.	3/0-3/0	1/2 Clad or Galv.-2/0
	4/0 str.-2/0 str.	4/0, 250-2/0	5/8 Clad-1/0
	250 str.-1/0 str.	250/300-1/0	5/8 Galv.-#2
	300 str.-#2 sol., str.	350-#2	
83749-3	4/0 str.-3/0 str.	4/0-3/0	1/2 Clad or Galv.-3/0
	250 str.-2/0 str.	300-2/0	5/8 Clad-2/0
	300 str.-1/0 str.	350-1/0	5/8 Galv.-1/0
	350 str.-#2 sol., str.	400, 450-#2	3/4 Clad-#2
83748-1	4/0 str.-4/0 str.	4/0-4/0	1/2 Clad or Galv.-4/0
	250 str.-3/0 str.	250, 300-3/0	5/8 Clad-3/0
	300 str.-2/0 str.	350-2/0	5/8 Galv.-2/0
	350 str.-1/0 str.	400-1/0	
83748-2	4/0 str.-4/0 str.	250, 300-4/0	5/8 Clad-4/0
	300 str.-3/0 str.	350-3/0	5/8 Galv.-3/0
	350 str.-2/0 str.	400-2/0	
83749-4	400, 450 str.-#2 sol., str.	450-1/0	3/4 Clad-1/0
		500-#2	3/4 Galv.-#2
83748-3	350 str.-3/0 str.	400-3/0	3/4 Clad-2/0
	400 str.-2/0, 1/0 str.	450-2/0	3/4 Galv.-1/0
	450 str.-1/0 str.	500-1/0	
83748-4	300 str.-4/0 str.	350-4/0, 250	5/8 Galv.-4/0
	400 str.-3/0 str.	400-4/0	5/8 Galv.-250 cmpt.
	450 str.-2/0 str.	450-3/0	3/4 Clad-3/0
		500 - 2/0	3/4 Galv.-2/0
83750-1	250 str.-250 str.	250, 300-250, 300	5/8 Clad-250 str., cmpt.
83751-1	300 str.-250 str.	350, 400-300	5/8 Galv.-250 str., 300 cmpt.
	350, 400 str.-4/0 str.	400-250	3/4 Clad-4/0,250 cmpt.
	450 str.-3/0 str.	450-4/0	3/4 Galv.-3/0
	500 str. - 2/0 str.	500-3/0	
83751-2	300, 350 str.-300 str.	350, 400-350	5/8 Galv.-350 cmpt, 300 str.
	350, 400 str.-250 str.	450-300, 250	3/4 Clad-250 str., 300 cmpt.
	450 str.-4/0 str.	500-250	3/4 Galv.-4/0, 250 cmpt.
	500 str.-3/0 str.		
83751-3	350 str.-350 str.	400-400	3/4 Clad-300 str., 350 cmpt,
			str., 400 cmpt.
	400 str.-300 str.	450-350	3/4 Galv.-250 str., 300 cmpt.
	450 str.-250 str.	500-350, 300	
	500 str.-4/0 str.		
83751-4	400 str.-350 str.	400, 500-400	3/4 Galv.-300 str., 350 cmpt,
			400 cmpt.
	450 str.-300 str.		
	500 str.-250 str.		
83750-2	400 str.-400 str.	450, 500-450	3/4 Galv.-350 str., 450 cmpt.
	450 str.-350 str.		
	500 str.-300 str.		
83750-3	450 str.-400 str.	500-500	3/4 Galv.-400 str., 500 cmpt.
	450 str.-400 str.		
	500 str.-350 str.		
83750-5	450 str.-450 str.		
	500 str.-400 str.		
83750-4	500 str.-450 str.		
83750-6	500 str.-500 str.		

WRENCH-LOK WIRE DIAMETER SYSTEMS:DIMENSIONS IN INCHES (MM)

IMPERIAL	Sum of Diameters		Large Wire		Small Wire	
	Max.	Min.	Max.	Min.	Max.	Min.
83747-1	0.595	0.500	0.296	0.204	0.296	0.204
83747-2	0.706	0.594	0.420	0.298	0.296	0.204
83747-3	0.782	0.672	0.470	0.302	0.370	0.258
83747-4	0.832	0.733	0.520	0.313	0.420	0.258
83749-1	0.89	0.799	0.630	0.423	0.470	0.258
83749-2	0.942	0.846	0.630	0.423	0.470	0.258
83749-3	1.003	0.898	0.700	0.470	0.470	0.258
83748-1	1.050	0.943	0.700	0.470	0.700	0.292
83748-2	1.099	0.995	0.700	0.470	0.522	0.295
83749-4	1.068	0.964	0.770	0.500	0.470	0.258
83748-3	1.146	1.042	0.770	0.500	0.520	0.292
83748-4	1.192	1.086	0.770	0.500	0.520	0.316
83750-1	1.148	1.04	0.580	0.460	0.580	0.460
83751-1	1.250	1.147	0.815	0.572	0.575	0.336
83751-2	1.311	1.212	0.815	0.582	0.630	0.414
83751-3	1.374	1.288	0.815	0.606	0.682	0.473
83751-4	1.419	1.342	0.815	0.660	0.682	0.527
83750-2	1.464	1.400	0.815	0.670	0.730	0.585
83750-3	1.510	1.446	0.815	0.676	0.770	0.631
83750-5	1.546	1.495	0.815	0.680	0.815	0.680
83750-4	1.580	1.538	0.815	0.723	0.815	0.723
83750-6	1.620	1.578	0.815	0.763	0.815	0.763

METRIC	Sum of Diameters		Large Wire		Small Wire	
	Max.	Min.	Max.	Min.	Max.	Min.
83747-1	15.113	12.700	7.518	5.182	7.518	5.182
83747-2	17.932	15.088	10.668	7.569	7.518	5.182
83747-3	19.863	17.069	11.938	7.671	9.398	6.553
83747-4	21.133	18.618	13.208	7.950	10.668	6.553
83749-1	22.606	20.295	16.002	10.744	11.938	6.553
83749-2	23.927	21.488	16.002	10.744	11.938	6.553
83749-3	25.476	22.809	17.780	11.938	11.938	6.553
83748-1	26.670	23.952	17.780	11.938	17.780	7.417
83748-2	27.910	25.273	17.780	11.938	13.259	7.493
83749-4	27.127	24.486	19.558	12.700	11.938	6.553
83748-3	29.108	26.467	19.558	12.700	13.208	7.417
83748-4	30.277	27.584	19.558	12.700	13.208	8.026
83750-1	29.159	26.416	14.732	11.684	14.732	11.684
83751-1	31.750	29.134	20.701	14.529	14.605	8.534
83751-2	33.299	30.785	20.701	14.783	16.002	10.516
83751-3	34.900	32.715	20.701	15.390	17.323	12.014
83751-4	36.043	34.087	20.701	16.764	17.323	13.386
83750-2	37.186	35.56	20.701	17.018	18.542	14.859
83750-3	38.354	36.728	20.701	17.170	19.558	16.027
83750-5	39.268	37.973	20.701	17.272	20.701	17.272
83750-4	40.132	39.065	20.701	18.364	20.701	18.364
83750-6	41.148	40.081	20.701	19.380	20.701	19.380

Universal Distribution Connectors

FEATURES

- Composed of a "C" component and a "Wedge" component, both made of a tin-plated copper alloy, in a configuration that creates a spring action.
- Can be rapidly and safely installed without special tools
- Conventional "parallel jaw" pliers are used to make the connection. A good connection can be easily verified by visual inspection.
- A wide range of connectors cover combinations of conductors ranging from 14 AWG to 4/0 AWG [1.5 mm^2 to 120 mm^2], and all can be removed without damaging the conductors.

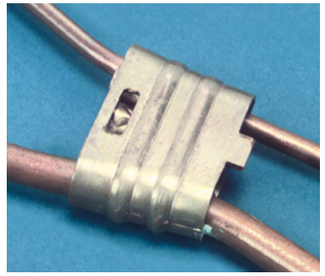
APPLICATIONS

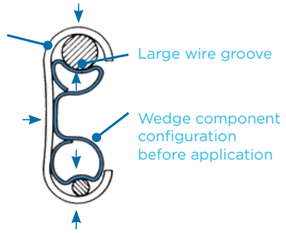
- Recommended for connecting conductors of aluminum, copper, steel and their alloys regardless of the combination (i.e., Al to Al, Al to Cu, Cu to Cu) in normal corrosive environments.

BENEFITS

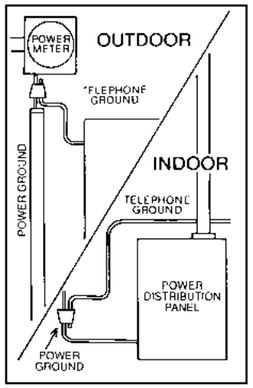
- Their technical design and construction are such that they have neither the disadvantages of some screw connectors, which must be periodically readjusted and retightened, nor the drawbacks of compression-type connectors, which are difficult to select and install, and which, once applied, cannot be removed without rendering the conductors useless.
- In addition to these technical features, the Universal Distribution Connector provides a noncorrosive connection that is protected against temperature variation and overloading.
- The reinforced version was developed to comply to ANSI C119.4 "Pull-Out" test and can be used in high cable tension applications. Both connector versions comply with all other specifications/ tests of ANSI C119.4 Standard.

Universal Distribution Connectors

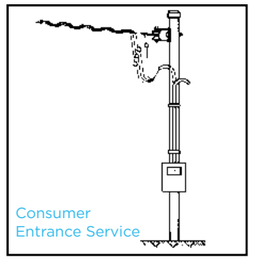


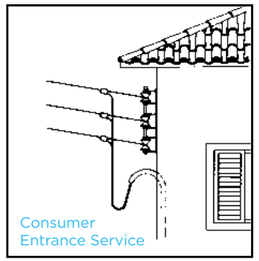


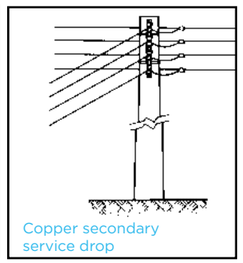
Residential/Commercial Grounding

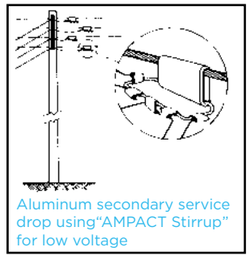


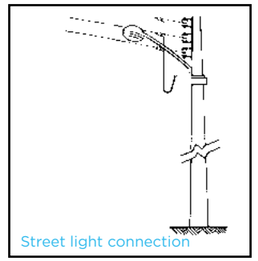
- Telephone grounding
- Street lights
- Service entrance drops
- Aerial connections


Consumer Entrance Service


Consumer Entrance Service


Copper secondary service drop


Aluminum secondary service drop using"AMPACT Stirrup" for low voltage


Street light connection

Technical Documents

Product Specifications	108-37019
Instruction Sheet	411-37014

DIMENSIONS IN INCHES (MM)

	Type	Top Groove max.	Top Groove min.	Bottom Groove max.	Bottom Groove min.	Sum max.	Sum min.	Package Color	Catalog No. (Reinforced)	Cover Catalog No.
Symmetrical Connectors	I	.320 (8,12)	.125 (3,17)	.275 (7,00)	.125 (3,17)	.551 (14,01)	.418 (10,60)	Gray	881781-1	881224-1
	II	.320 (8,12)	.125 (3,17)	.208 (5,30)	.125 (3,17)	.417 (10,59)	.347 (8,82)	Green	881783-1	881225-1
	III	.258 (6,55)	.100 (2,54)	.174 (4,41)	.050 (1,27)	.346 (8,81)	.291 (7,40)	Red	881785-1	881226-1
	IV	.241 (6,12)	.100 (2,54)	.145 (3,70)	.050 (1,27)	.290 (7,39)	.236 (5,99)	Blue	881787-1	881226-1
	V	.186 (4,72)	.100 (2,54)	.118 (3,00)	.050 (1,27)	.235 (5,98)	.180 (4,58)	Yellow	881789-1	881226-1
	VI	.417 (10,61)	.315 (8,01)	.368 (9,36)	.257 (6,54)	.737 (18,72)	.661 (16,79)	White/ Blue	444031-1	602061-0
	VII	.398 (10,11)	.183 (4,66)	.327 (8,30)	.183 (4,66)	.660 (16,78)	.552 (14,02)	White/ Red	444033-1	602061-0
	VIII	.398 (10,11)	.315 (8,01)	.398 (10,11)	.315 (8,01)	.796 (20,22)	.738 (18,73)	Green/ White	444385-1	602061-0
Asymmetrical Connectors	A	.368 (9,36)	.220 (5,60)	.201 (5,10)	.068 (1,74)	.431 (10,95)	.358 (9,10)	Violet	688652-1	688385-1
	B	.368 (9,36)	.244 (6,20)	.201 (5,10)	.068 (1,74)	.516 (13,11)	.431 (10,95)	Orange	688653-1	688385-1
	C	.501 (12,74)	.323 (8,20)	.201 (5,10)	.068 (1,74)	.581 (14,75)	.516 (13,11)	Brown	688654-1	688386-1
	D	.501 (12,74)	.374 (9,50)	.201 (5,10)	.068 (1,74)	.669 (17,00)	.581 (14,75)	White	688655-1	688386-1
	F	.328 (8,33)	.220 (5,60)	.201 (5,10)	.068 (1,74)	.358 (9,10)	.283 (7,20)	Green/ Blue	688656-1	688385-1
	G	.328 (8,33)	.220 (5,60)	.068 (1,73)	.054 (1,36)	.358 (9,10)	.283 (7,20)	Violet/ Blue	688657-1	688385-1

**Note: Universal Distribution Connectors are supplied in individual packages identified by Type.*

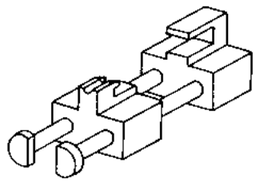
Example

To make a service entrance of a 4 AWG [21 mm2] stranded Al cable to a 10 AWG [5.12 mm2] solid Cu wire, add:

Diameter of Main Wire (4 AWG [21 mm2] stranded Al cable)	= 0.232 in. [5,89 mm]
Diameter of Service Entrance Wire (10 AWG [5.12 mm2] solid Cu wire)	= 0.096 in. [2,44 mm]
Total of Diameters	= 0.328 in. [8,33 mm]

The recommended connector is Type III, with the red color plastic bag.

EXTRACTION TOOLS



572882-1

IS 411-37014

(For use with Symmetrical Connectors)

SELECTION INFORMATION: SYMMETRICAL AND ASYMMETRICAL CONNECTORS (AWGX AWG)

	Wire Size	SOLID						STR CU/AL AAC								STR ACSR								STR COMPRESSED				
		10	8	6	4	2	1/0	10	8	6	4	2	1/0	2/0	3/0	4/0	8	6	4	2	1/0	2/0	3/0	4/0	8	6	4	2	1/0
	14		V	V	IV	III/G		V	V	IV	III/G	G	K	K			V	IV	III/G	H	K				V	IV	IV/G	G	H
S	12	V	V	IV	IV	III/F	A	V	V	IV	III/F	A	B	J	C		IV	IV	III/F	A	J	C	D		V	IV	IV	A	B
O	10	V	V	V	III	II/F	A	V	IV	IV	III/F	A	B	C	C		IV	III	F	A	J	C	D	L	IV	IV	III	A	B
L	8		IV	IV	III	II/A	B		IV	III	II/A	B	B	C	F	L	IV	III	II/A	I/B	C	C	D	L	IV	III	III	II/A	B
I	6			III	II	I/A	B			III	II/A	I/B	C	C	D			II	II/A	I/B	C	D	D	L		III	II	I/B	C
D	4				II	I					I	I	VII						I	I	VII							I	VII
	2					I	VII					I	VII	VI						VII	VII	VI							I	VII
	1/0						VII						VI								VI								VI
S	14		V	IV	IV	III/F	A	V	V	IV	III/F	A	B	J	C		V	IV	III/F	A	J	C	C		V	IV	IV/F	A	B
T	12	V	V	IV	III	F	A	V	IV	IV	III/F	A	B	J	C		IV	IV	III/F	A	J	C	D	L	V	IV	III	A	B
R	10	V	IV	IV	III	A	B	V	IV	III	F	A	B	C	D		IV	III	A	B	J	C	D	L	IV	III	III	A	B
CU	8		IV	III	II	II/A	B		III	III	II/A	I/B	B	C	D	L	III	III	II/A	I/B	VII/C	D	D	L	IV	III	II	I/A	B
	6				II	I/B	B			III	II/A	I/B	VII/C	D	D			II	I/B	I/B	VII/D	D	D	L			II	I/B	C
A	4					I	VII				I	I	VII						I	I	VI							I	VII
A	2						VII					VII	VII	VI						VII	VIII								VII
C	1/0												VI																
	8		IV	III	II	II/A	B		III	III	II/A	I/B	C	C	D	L	III	II	II/A	I/B	C	D	D	L		III	II	I/B	CA
	6				II	I/B	C			II	I/A	I/B	VII/C	D	D			II	I/B	I/B	VII/D	D		L			II	I/B	VII/C
C	4					I	VII					I	VII						I	VII	VII							I	VII
S	2						VII						VI	VI						VII	VI								VI
R	1/0																				VIII								VIII
S	14					F	A				F	A	B	J					F	A	J					F	F	B
T	12					F	A				F	A	B	J	C				F	A	J	C	D	L		F	A	B
R	10					A	B				F	A	B	C	D				A	B	J	C	D	L		F	A	B
	8		IV	III	III	II/A	B		IV	III	II/A	I/B	C	C	D	L	III	III	II/A	I/B	C	D	D	L	IV	III		I/A	B
C	6			III	II	I/B	B			II	II/A	I/B	C	D	D	L		II	I/A	I/B	C	D	L	L		II	II/A	I/B	C
O	4				II	I					I	I	VII						I	I	VII							II	I	VII
M	2				II		VII					VII	VII	VI						VII	VI							VII	VII
P	1/0						VI						VI								VII								VI

SELECTION INFORMATION: SYMMETRICAL AND ASYMMETRICAL CONNECTORS (AWGX MM2)

	Wire Size	SOLID						STR CU/AL AAC								STR ACSR							STR COMPRESSED				
		10	8	6	4	2	1/0	10	8	6	4	2	1/0	2/0	3/0	8	6	4	2	1/0	2/0	3/0	8	6	4	2	1/0
	1.5		V		IV	III/G	H	V	V	V	IV/G	G	H	K		V	IV	III/G	H	K			V	V	IV	G	H
S	2.5		V	V	IV	III/F	A	V	V	V	III/F	A	B	J	C	IV	IV	III/F	A	J			V	IV	III/F	F	A
T	4		V	V	III	F	A	IV	V	V	III/F	A	B	J	C	IV	III	F	A	J			IV	IV	III/F	A	B
R	6		IV	IV	III	A	B	IV	IV	IV	F	A	B	C	D	IV	III	A	B	C			IV	III	II/A	B	C
CU	10			III	II	II/A	B	III		III	II/A	1/B	C	C	D		II	II/A	I/B	C				III	II/A	I/B	C
A	16				II	I					I	I	VII					I	I	VII						I	VII
A	25					I	VII					I	VII						VII	VII							I	VII
C	35						VII						VI	VI					VII	VI							I	VII
	50												VI							VIII								VI

SELECTION INFORMATION: SYMMETRICAL AND ASYMMETRICAL CONNECTORS (MM2 X AWG)

	Wire Size	SOLID					STR AAC								STR COMPRESSED						
		6	10	16	25	35	50	4	6	10	16	25	35	50	70	90	10	16	25	35	50	70	95
S	14		V	IV	IV/G	G	H		V	V	IV	III/G	H	K			V	IV	III/G	G	H	K	
O	12	V	V	IV	III/F	F	A		V	V	IV	III/F	A	B	J	C	V	IV	III/F	F	A	J	C
L	10	V	IV	IV	III/F	A	A	V	V	V	III	F	A	B	J	D	IV	IV	III/F	A	A	J	C
I	8		IV	III	II/F	II/A	I/B			IV	III	II/A	I/A	B	C	D	IV	III	II/A	II/A	I/B	J	C
D	6			III	II/A	I/A	IB				II	II/A	I/B	C	C	D		II	II/A	I/B	I	C	D
	4				I	I	I					I	I	VII					I	I	I	VII	
	2					I	VII						VII	VII	VI					I	VII	VII	
	1/0													VI	VI							VI	
	14	V	V	IV	III/F	F	A		V	V	IV	III/F	A	B	J	C	V	IV	III/F	F	A	J	C
S	12	V	V	IV	III/F	F	A	V	V	IV	III	III/F	A	B	J	C	IV	IV	III/F	A	A	J	C
T	10		IV	IV	III/F	A	A/B		IV	IV	III	A	A	B	C	D	IV	III	F	A	B	J	C
R	8			III	II/A	II/A	I/B			III	II	II/A	I/B	B	C	D	III	III	II/A	I/A	I/B	C	D
A	6				II/A	I/B	I/B				II	I/B	I/B	C	D	D		II	I/A	I/B	I/B	VII/C	D
A	4					I	I					I	I	VII					I	I	I	VII	
C	2						VII						VII	VII							VII	VI	
	1/0																					VIII	

SELECTION INFORMATION: SYMMETRICAL AND ASYMMETRICAL CONNECTORS (MM2 X MM2)

	Wire Size	SOLID						STR AAC								STR COMPRESSED						
		6	10	16	25	35	50	6	10	16	25	35	50	70	95	10	16	25	35	50	70	95
	1.5		V	V	IV	G	H		V	IV	III/G	G	H	K		V	IV	IV/G	G	H	K	
	2.5		V	IV	IV/F	F	A	V	V	IV	III/F	A	A	J	C	V	IV	III/A	F	A	J	
S	4	V	V	IV	III/F	F	A	V	IV	IV	III/F	A	B	J	C	V	IV	III/F	A	A	J	C
O	6	V	IV	IV	III/F	A	A	V	IV	III	F	A	B	J	D	IV	III	III/F	A	A	J	C
L	10		IV	III	II/A	II/A	I/B		III	III	II/A	I/B	B	C	D	IV	III	II/A	II/A	I/B	C	D
I	16			I	II/A	I/B	I/B			II	I/A	I/B	C	D	D		II	II/A	I/B	I/B	C	D
D	25				I	I	I				I	I	VII					I	I	I	VII	
	35					I	VII					VII	VII	IV					I	VII	VII	
	50						VII						VI	VI						VII	VI	
	1.5		V	V	IV	G	H	V	V	IV	III/G	G	H	K		V	IV	III/G	G	H	K	
S	2.5	V	V	IV	III/F	F	A	V	IV	IV	III/F	A	B	J	C	V	IV	III/F	F	A	J	C
T	4	V	IV	IV	III/F	A	A	V	IV	III	F	A	B	J	D	IV	IV	III/F	A	A	J	C
R	6		IV	III	III/F	A	B	IV	IV	III	A	A	B	C	D	IV	III	F	A	B	J	C
	10			III	II/A	I/A	I/B		III	II	II/A	I/B	B	C	D		III	II/A	I/B	I/B	C	D
A	16				I	I	I			II	I	I	VII					I	I	I	VII	
C	25					I	VII				I	I	VII						I	VII	VII	
C	35						VII					VII	VII	VI						VII	VI	
	50												VI								VI	
S	10			III	II/A	II/A	I/B		III	II	II/A	I/B	B	C	D	III	III	II/A	I/A	I/B	C	D
T	16				II/A	I/B	I/B			II	I/B	I/B	C	D			II	I/A	I/B	I/B	VII/C	D
R	25					I	I				I	I	VII					I	I	I	VII	
	35						VII					VII	VII	VI					I	VII	VII	
C	50												VI	VI						VII	VI	
P	70																					VII

AMPACT Taps

WHAT ARE AMPACT TAPS?
AMPACT taps consist of a wedge and tapered, spring "C" member. AMP Inhibitor, an oxide-inhibiting compound, is placed in the tap grooves at the factory. During installation, the wedge is driven into the C member at high velocity between the run and tap conductors. This spreads the C member and places a high retentive force on the conductors for a reliable, long-lived connection. A locking tab, formed by a lance on the tool, prevents the wedge from loosening once it has been driven into position, and also provides a positive visual means for inspection.

IMPORTANCE OF COLOR CODES
Color coding plays a vital role in the AMPACT tap system. When installing taps, always use color-coded shells to match each AMPACT tap.

For example:
RED-coded taps require RED shell No. 69338-2
WHITE-coded taps require WHITE shell No. 69338-5.BLUE-coded taps require BLUE shell No. 69338-1.YELLOW-coded taps require YELLOW shell No. 69338-4.

WARNING: Carefully read TE's AMP Customer Manual CM2106, packaged with the tool, before attempting to apply any taps.

APPROVALS
Both AMPACT tools (Small Tool No. 69437 and Large Tool No. 69611) have been tested and listed by Underwriters Laboratories, Inc. (UL) and have been certified by the Canadian Standard Association (CSA). AMPACT taps that are UL Listed or CSA Certified are noted on the following pages. Note, that AMPACT taps also meet or exceed NEMA-ANSI* specifications. AMPACT connectors and tooling also have the approval of the Rural Electrification Administration (REA).

* National Electrical Manufacturers' Association - American National Standards Institute.

How to use the selection charts
Note that the example chart has the larger conductor listed in the upper half of each vertical column and the smaller one in the bottom half of the column. Any wire in the upper portion of a column can be connected to any wire in the lower half of that same column by using the recommended AMPACT tap listed at the bottom of that column.

To Use the Chart:
Carefully check the size and type of the two wires to be connected.

Example No. 1/0 stranded ACSR, standard round to No. 4 solid copper (Cu).

In the upper portion of the chart, locate ACSR standard round. From this point, move across the vertical columns (as indicated by the arrow) until you come to the 1/0 column.

In the lower half of this 1/0 column, you will find "No. 4,5,6 solid: Al or Cu." The proper AMPACT tap number and color will appear at the bottom of this column. "USE AMPACT TAP No. 600528, COLOR RED."

AMPACT Aluminum Taps (Red, Blue, and Yellow Coded)
All AMPACT taps in this section are made from aluminum alloys that are corrosion resistant and highly conductive. They are used primarily to connect solid or stranded conductors including AAC, AAAC, ACSR, ACAR, AW, and ASCR/AW. They can also be used in non-corrosive environments to connect to copper conductors. In short, all aluminum taps listed in this section are used for connecting the following conductor combinations:

- Aluminum to Aluminum
- Aluminum to Copper
- Copper to Copper (in non-corrosive environments)

Individual tap packages are imprinted with applicable conductor combinations. Packages and labels are color-coded for ease in matching taps with proper tool and cartridge combinations.

4/0 SERIES AMPACT BAT ALUMINUM TAP SYSTEM SELECTION GUIDE

Catalog Number	Main Conductor	Tap Conductor
2445483-1	4/0 AAC-ACSR	4/0 AAC-ACSR, SOL
		3/0 AAC-ACSR
2445483-2	4/0 AAC-ACSR	3/0 SOL
		2/0 AAC-ACSR, SOL
		1/0 AAC-ACSR, SOL
	3/0 AAC-ACSR	3/0 AAC-ACSR, SOL
		2/0 AAC-ACSR
2445483-3	4/0 AAC-ACSR	#2 AAC-ACSR
	3/0 AAC-ACSR	2/0 SOL
		1/0 AAC-ACSR, SOL
	2/0 AAC-ACSR	2/0 AAC-ACSR, SOL
		1/0 AAC-ACSR
2445483-4	4/0 AAC-ACSR	#2 SOL
		#4 AAC-ACSR, SOL
		#6 AAC-ACSR, SOL
	3/0 AAC-ACSR	#2 AAC-ACSR, SOL
		#4 AAC-ACSR
	2/0 AAC-ACSR	1/0 SOL
		#2 AAC-ACSR
	1/0 AAC-ACSR	1/0 SOL
2445483-5	3/0 AAC-ACSR	#4 SOL
		#6 AAC, SOL
	2/0 AAC-ACSR	#2 SOL
		#4 AAC-ACSR, SOL
		#6 AAC-ACSR, SOL
	1/0 AAC-ACSR	#2 AAC-ACSR, SOL
		#4 AAC-ACSR, SOL
	#2 AAC-ACSR	#2 AAC-ACSR
2445483-6	1/0 AAC-ACSR	#6 AAC-ACSR, SOL
	#2 AAC-ACSR	#2 SOL
		#4 AAC-ACSR, SOL
		#6 AAC-ACSR, SOL
	#4 AAC-ACSR	#4 AAC-ACSR
2445483-7	#4 AAC-ACSR	#4 SOL
		#6 AAC-ACSR, SOL
	#6 AAC-ACSR	#6 AAC-ACSR, SOL

Note: Tap Selection Chart covers common conductor combinations, refer to Sum of Diameter table below for full connector use range.

556 SERIES AMPACT BAT ALUMINUM TAP SYSTEM SELECTION GUIDE

Catalog Number	Conductor Range with Insert		Conductor Range No/Remove Insert	
	Main Conductor	Tap Conductor	Main Conductor	Tap Conductor
2376750-1	556.5 AAC-ACSR	336.4 AAC- ACSR, 350 AAC	556.5 AAC-ACSR	556.5 AAC-ACSR
	477 AAC-ACSR, 500 AAC	397.5 AAC-ACSR		
2376750-2	556.5 AAC-ACSR	266.8 AAC-ACSR, 250 AAC	556.5 AAC-ACSR	477 AAC-ACSR, 500 AAC
	477 AAC-ACSR, 500 AAC	336.4 AAC-ACSR, 350 AAC		
	397.5 AAC-ACSR	397.5 AAC-ACSR		
2376750-3	556.5 AAC-ACSR	4/0 AAC-ACSR	556.5 AAC-ACSR	397.5 AAC-ACSR
	477 AAC-ACSR, 500 AAC	266.8 AAC-ACSR, 250 AAC	477 AAC-ACSR, 500 AAC	477 AAC-ACSR, 500 AAC
	397.5 AAC-ACSR	336.4 AAC-ACSR, 350 AAC		
2376750-4	556.5 AAC-ACSR	3/0 AAC-ACSR, 4/ 0 SOL	556.5 AAC-ACSR	556.5 AAC-ACSR
	477 AAC-ACSR, 500 AAC	4/0 AAC-ACSR		
	397.5 AAC-ACSR	266.8 AAC-ACSR, 250 AAC		
	336.4 AAC-ACSR	336.4 AAC-ACSR, 350 AAC		
	350 AAC	350 AAC		
2376750-5	556.5 AAC-ACSR	2/0 AAC-ACSR, SOL, 3/0 SOL	556.5 AAC-ACSR	477 AAC-ACSR, 500 AAC
	477 AAC-ACSR, 500 AAC	3/0 AAC-ACSR, 4/0 SOL		
	397.5 AAC-ACSR	4/0 AAC-ACSR		
	336.4 AAC-ACSR	266.8 AAC-ACSR, 250 AAC		
2376750-6	556.5 AAC-ACSR	1/0 SOL -STR	556.5 AAC-ACSR	397.5 AAC-ACSR
	477 AAC-ACSR, 500 AAC	2/0 AAC-ACSR, SOL,		
	397.5 AAC-ACSR	3/0 SOL		
	336.4 AAC-ACSR	3/0 AAC-ACSR, 4/0 SOL		
	350 AAC	4/0 AAC-ACSR	477 AAC-ACSR, 500 AAC	500 AAC
	266.8 AAC-ACSR	4/0 AAC-ACSR		
2376750-7	N/A		556.5 AAC-ACSR	#2 AAC-ACSR, SOL
			477 AAC-ACSR, 500 AAC	1/0 AAC-ACSR, SOL
			397.5 AAC-ACSR	2/0 AAC-ACSR, SOL, 3/0 SOL
			336.4 AAC-ACSR	3/0 AAC-ACSR, 4/0 SOL
			350 AAC	3/0 AAC-ACSR, 4/0 SOL
			266.8 AAC-ACSR	4/0 AAC-ACSR
2376750-8	N/A		556.5 AAC-ACSR	#4 SOL- STR
			477 AAC-ACSR, 500 AAC	#2 AAC-ACSR, SOL
			397.5 AAC-ACSR	1/0 AAC-ACSR, SOL
			336.4 AAC-ACSR	2/0 AAC-ACSR, 3/0 SOL
			350 AAC	2/0 AAC-ACSR, 3/0 SOL
			266.8 AAC-ACSR	3/0 AAC-ACSR, 4/0 SOL
2376750-9	N/A		556.5 AAC-ACSR	#6 AAC-ACSR, SOL
			477 AAC-ACSR, 500 AAC	#4 AAC-ACSR, SOL
			397.5 AAC-ACSR	#2 AAC-ACSR, SOL
			336.4 AAC-ACSR	1/0 AAC-ACSR, SOL, 2/0 SOL
			350 AAC	1/0 AAC-ACSR, SOL, 2/0 SOL
			266.8 AAC-ACSR	2/0 ACSR, 3/0 SOL
1-2376750-0	N/A		477 AAC-ACSR, 500 AAC	#6 AAC-ACSR, SOL
			397.5 AAC-ACSR	#4 AAC-ACSR, SOL
			336.4 AAC-ACSR	#2 AAC-ACSR, SOL
			350 AAC	#2 AAC-ACSR, SOL
			266.8 AAC-ACSR	1/0 AAC-ACSR, SOL, 2/0 SOL
1-2376750-1	N/A		397.5 AAC-ACSR	#6 AAC-ACSR, SOL
			336.4 AAC-ACSR	#4 AAC-ACSR, SOL
			350 AAC	#4 AAC-ACSR, SOL
			266.8 AAC-ACSR	#2 AAC-ACSR, SOL
1-2376750-2	N/A		336.4 AAC-ACSR	#6 AAC-ACSR, SOL
			350 AAC	#6 AAC-ACSR, SOL
			266.8 AAC-ACSR	#4 ACSR

Note: 30/7 ACSR Conductor stranding outside of standard range. Contact customer service for details. Tap Selection Chart covers common conductor combinations, refer to Sum of Diameter table below for full connector use range.

795 SERIES AMPACT BAT ALUMINUM TAP SYSTEM SELECTION GUIDE

Catalog Number	Conductor Range with Insert		Conductor Range No/Remove Insert	
	Main Conductor	Tap Conductor	Main Conductor	Tap Conductor
2377042-1	795 AAC-26/7 715 24/7-30/19	477 30/7 556 AAC-26/7	795 AAC-26/7 715 24/7-30/19	715 30/19 795 AAC-26/7
	715 AAC-45/7 636 30/19-24/7	556 30/7 605 24/7-30/19 636 AAC-26/7		
	605 24/7-30/19	605 24/7-30/19		
2377042-2	795 AAC-26/7 715 24/7-30/19	397 30/7 477 AAC-26/7	795AAC	795AAC
	715 AAC-45/7 636 30/19-24/7	477 30/7 556 AAC-26/7	**795 AAC-26/7 715 24/7-30/19**	**636 30/7-30/19 715 AAC-26/7**
	605 24/7-30/19 556.5 30/7	556 18/1-30/7		
2377042-3	795 AAC-26/7 715 24/7-30/19	336 30/7 397 AAC-26/7	795 AAC-26/7 715 24/7-30/19	556 30/7 605 24/7-30/19 636 AAC-26/7
	715 AAC-45/7 636 30/19-24/7	477 AAC-26/7		
	605 24/7-30/19 556.5 30/7	477 AAC-30/7 556 AAC	715 AAC-45/7 636 30/19-24/7	636 30/7-30/19 715 AAC-45/7
2377042-4	795 AAC-26/7 715 24/7-30/19	336 AAC-26/7	795AAC	795AAC
	715 AAC-45/7 636 30/19-24/7	397 AAC-30/7		
	605 26/7-30/19	397 AAC	795 AAC-26/7 715 24/7-30/19	636 30/7-30/19 715 AAC-26/7
	605 24/7-30/19 556.5 30/7	397 AAC-30/7		
2377042-5	795 AAC-26/7 715 24/7-30/19	266 AAC-26/7	795 AAC-26/7 715 24/7-30/19	556 30/7 605 24/7-30/19 636 AAC-26/7
	715 AAC-45/7 636 30/19-24/7	336 AAC-30/7		
	605 24/7-30/19 556.5 30/7	336 AAC-30/7	715 AAC-45/7 636 30/19-24/7	636 30/7-30/19 715 AAC-45/7
	605 24/7 556.5 30/7	397 AAC		
2377042-6	795 AAC-26/7 715 24/7-30/19	1/0 AAC-ACSR 2/0 SOL	795 AAC-26/7 715 24/7-30/19	4/0 AAC-ACSR
	715 AAC-45/7 636 30/19-24/7	2/0 AAC-ACSR, SOL 3/0 SOL	715 AAC-45/7 636 30/19-24/7	266 AAC-26/7
	605 24/7-30/19 556.5 30/7	2/0 AAC-ACSR 3/0 SOL	605 24/7-30/19 556.5 30/7	266 AAC-26/7
2377042-7	795 AAC-26/7 715 24/7-30/19	#2 AAC-ACSR 1/0 SOL	795 AAC-26/7 715 24/7-30/19	3/0 AAC-ACSR 4/0 SOL
	715 AAC-45/7 636 30/19-24/7	1/0 AAC-ACSR, SOL	715 AAC-45/7 636 30/19-24/7	4/0 AAC-ACSR
	605 24/7-30/19 556.5 30/7	1/0 AAC-ACSR 2/0 SOL	605 24/7-30/19 556.5 30/7	4/0 AAC-ACSR
2377042-8	N/A		795 AAC-26/7 715 24/7-30/19	2/0 AAC-ACSR 3/0 SOL
			715 AAC-45/7 636 30/19-24/7	3/0 AAC-ACSR 4/0 SOL
			605 24/7-30/19 556.5 30/7	3/0 AAC-ACSR 4/0 SOL
2377042-9	N/A		795 AAC-26/7 715 24/7-30/19	#4 AAC-ACSR, SOL #2 SOL
			715 AAC-45/7 636 30/19-24/7	#2 AAC-ACSR, SOL
			605 24/7-30/19 556.5 30/7	#2 AAC-ACSR 1/0 SOL
1-2377042-0	N/A		795 AAC-26/7 715 24/7-30/19	#6 AAC-ACSR, SOL
			721 3/7	#6 SOL
			715 AAC-45/7 636 30/19-24/7	#6 AAC-ACSR #4 SOL- ACSR
			605 30/7-30/19	#6 AAC-ACSR
			605 24/7-30/19 556.5 30/7	#4 AAC-ACSR, SOL #2 SOL

Note: Tap Selection Chart covers common conductor combinations, refer to Sum of Diameter table below for full connector use range.

ALUMINUM TAP CHART SELECTION

	Large Wire Groove Code	P	U
STRANDED	**ACSR** Standard Round	1/0, 1 6/1	8 6/1
	AAAC 6201-5005	1/0, 1	–
	AAC Standard Round	1/0, 1	8
	COPPER Standard Round	1/0, 1	8
	AAC Compressed or Compacted	1/0	8
	ACSR Compressed or Compacted	1/0, 1 6/1	–
	AWAC, ACAR	4 2/5, 3 3/4, 2/5, 2 5/2, 4/3, 3/4, 1 6/1, 5/2, 4/3, 1/0 6/1	–
	ALUMOWELD COPPERWELD	1/0F, 1F, 1G, 1J, 2A, 2G, 2J, 2K, 3A, 4D, 4N, 4P, 3 No. 5, 7 No. 8, 3 No. 6, 7 No. 9	–
	Galvanized Steel	11/32", 3/8"	5/32"
	Solid: AL or CU	1/0	6, 8

TO TO TO

STRANDED	**ACSR** Standard Round		8 6/1
	AAAC 6201-5005	–	–
	AAC Standard Round	10, 12, 14	8
	COPPER Standard Round	10, 12, 14	8
	AAC Compressed or Compacted	–	8
	ACSR Compressed or Compacted	–	–
	AWAC, ACAR	–	–
	ALUMOWELD COPPERWELD	–	–
	Galvanized Steel	–	5/32"
	Solid: AL or CU	10, 12, 14	6, 8

Use TAP Number	**83653-1**	**600532***

Red coded taps are not sold in North America and should be substituted with white coded taps shown on the following pages.
*UL Listed

	Large Wire Groove Code	X	R	X	R	S	Y
STRANDED	**ACSR** Standard Round	6 6/1	6 6/1	4 6/1, 7/1, 5 6/1	4 6/1, 7/1, 5 6/1	4 6/1, 7/1, 5 6/1	2 6/1, 7/1, 3 6/1
	AAAC 6201-5005	6	6	4, 5	4, 5	4, 5	2, 3
	AAC Standard Round	6	6	4, 5	4, 5	4, 5	2, 3
	COPPER Standard Round	6	6	4, 5	4, 5	4, 5	2, 3
	AAC Compressed or Compacted	6	6	3, 4	3, 4	3, 4	1, 2
	ACSR Compressed or Compacted	6 6/1	6 6/1	4 6/1, 7/1	4 6/1, 7/1	4 6/1, 7/1	2 6/1, 7/1
	AWAC, ACAR	–	–	4 6/1	4 6/1	4 6/1	4 5/2, 4/3, 3/4, 3 6/1, 5/2, 4/3, 2 6/1
	ALUMOWELD COPPERWELD	8A, 8C 3 No. 12	8A, 8C 3 No. 12	6A, 6C, 7A, 7D, 8D, 3 No. 9, 3 No. 10, 7 No. 12	6A, 6C, 7A, 7D, 8D, 3 No. 9, 7 No. 12, 3 No. 10	6A, 6C, 7A, 7D, 8D, 3 No. 9, 7 No. 12, 3 No. 10	2F, 4A, 5A, 5D, 6D, 3 No. 7, 7 No. 10, 3 No. 8, 7 No. 11
	Galvanized Steel	3/16"	3/16"	7/32", 1/4"	7/32", 1/4"	7/32", 1/4"	9/32", 5/16"
	Solid: AL or CU	4, 5	4, 5	2, 3	2, 3	2, 3	_

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STRANDED	**ACSR** Standard Round	8 6/1	6 6/1	8 6/1	6 6/1	4 6/1, 7/1, 5 6/1	8 6/1
	AAAC 6201-5005	–	6	–	6	4, 5	–
	AAC Standard Round	8	6	8	6	4, 5	8
	COPPER Standard Round	8	6	8	6	4, 5	8
	AAC Compressed or Compacted	8	6	8	6	3, 4	8
	ACSR Compressed or Compacted	–	6 6/1	–	6 6/1	4 6/1, 7/1	–
	AWAC, ACAR	–	–	–	–	4 6/1	–
	ALUMOWELD COPPERWELD	–	8A, 8C 3 No. 12	–	8A, 8C, 3 No. 12	6A, 6C, 7A, 7D, 8D, 3 No. 9, 3 No. 10, 7 No. 12	–
	Galvanized Steel	5/32"	3/16"	5/32"	3/16"	7/32", 1/4"	5/32"
	Solid: AL or CU	8	4, 5, 6	8	5, 6	3, 4	6, 8

Use TAP Number	**600535***	**600530***	**600535***	**600530***	**600531***	**600534***

Red coded taps are not sold in North America and should be substituted with white coded taps shown on the following pages.
*UL Listed

STRANDED	Large Wire Groove Code	S	P	Q	W
	ACSR Standard Round	2 6/1, 7/1, 3 6/1	2 6/1, 7/1, 3 6/1	2 6/1, 7/1, 3 6/1	1/0, 1 6/1
	AAAC 6201-5005	2, 3	2, 3	2, 3	1/0, 1
	AAC Standard Round	2, 3	2, 3	2, 3	1/0, 1
	COPPER Standard Round	2, 3	2, 3	2, 3	1/0, 1
	AAC Compressed or Compacted	1, 2	1, 2	1, 2	1/0
	ACSR Compressed or Compacted	2 6/1, 7/1	2 6/1, 7/1	2 6/1, 7/1	1/0, 1 6/1
	AWAC, ACAR	4 5/2, 4/3, 3/4, 3 6/1, 5/2, 4/3, 2 6/1	4 5/2, 4/3, 3/4, 3 6/1, 5/2, 4/3, 2 6/1	4 5/2, 4/3, 3/4, 3 6/1, 5/2, 4/3, 2 6/1	4 2/5, 3 3/4, 2/5, 2 5/2, 4/3, 3/4, 1 6/1, 5/2, 4/3, 1/0 6/1
	ALUMOWELD COPPERWELD	2F, 4A, 5A, 5D, 6D, 3 No. 7, 7 No. 10, 3 No. 8, 7 No. 11	2F, 4A, 5A, 5D, 6D, 3 No. 7, 7 No. 10, 3 No. 8, 7 No. 11	2F, 4A, 5A, 5D, 6D, 3 No. 7, 7 No. 10, 3 No. 8, 7 No. 11	1/0F, 1F, 1G, 1J, 2A, 2G, 2J, 2K, 3A, 4D, 4N, 4P, 3 No. 5, 7 No. 8, 3 No. 6, 7 No. 9
	Galvanized Steel	9/32", 5/16"	9/32", 5/16"	9/32", 5/16"	11/32", 3/8"
	Solid: AL or CU	1	1, 2	1/0, 1	1/0

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STRANDED					
	ACSR Standard Round	6 6/1	4 6/1, 7/1, 5 6/1	2 6/1, 7/1, 3 6/1	8 6/1
	AAAC 6201-5005	6	4, 5	2, 3	–
	AAC Standard Round	6	4, 5	2, 3	8
	COPPER Standard Round	6	4, 5	2, 3	8
	AAC Compressed or Compacted	6	3, 4	1, 2	8
	ACSR Compressed or Compacted	6 6/1	4 6/1, 7/1	2 6/1, 7/1	–
	AWAC, ACAR	–	4 6/1	4 5/2, 4/3, 3/4, 3 6/1, 5/2, 4/3, 2 6/1	–
	ALUMOWELD COPPERWELD	8A, 8C 3 No. 12	6A, 6C, 7A, 7D, 8D, 3 No. 9, 3 No. 10, 7 No. 12	2F, 4A, 5A, 5D, 6D, 3 No. 7, 7 No. 10, 3 No. 8, 7 No. 11	–
	Galvanized Steel	3/16"	7/32", 1/4"	9/32", 5/16"	5/32"
	Solid: AL or CU	4, 5, 6	2, 3	1, 2	6, 8
	Use TAP Number	**600531***	**600528***	**600529***	**600533***

Red coded taps are not sold in North America and should be substituted with white coded taps shown on the following pages.
*UL Listed

STRANDED	Large Wire Groove Code	P	Q	N
	ACSR Standard Round	1/0, 1 6/1	1/0, 1 6/1	1/0, 1 6/1
	AAAC 6201-5005	1/0, 1	1/0, 1	1/0, 1
	AAC Standard Round	1/0, 1	1/0, 1	1/0, 1
	COPPER Standard Round	1/0, 1	1/0, 1	1/0, 1
	AAC Compressed or Compacted	1/0	1/0	1/0
	ACSR Compressed or Compacted	1/0, 1 6/1	1/0, 1 6/1	1/0, 1 6/1
	AWAC, ACAR	4 2/5, 3 3/4, 2/5, 2 5/2, 4/3, 3/4, 1 6/1, 5/2, 4/3, 1/0 6/1	4 2/5, 3 3/4, 2/5, 2 5/2, 4/3, 3/4, 1 6/1, 5/2, 4/3, 1/0 6/1	4 2/5, 3 3/4, 2/5, 2 5/2, 4/3, 3/4, 1 6/1, 5/2, 4/3, 1/0 6/1
	ALUMOWELD COPPERWELD	1/0F, 1F, 1G, 1J, 2A, 2G, 2J, 2K, 3A, 4D, 4N, 4P, 3 No. 5, 7 No. 8, 3 No. 6, 7 No. 9	1/0F, 1F, 1G, 1J, 2A, 2G, 2J, 2K, 3A, 4D, 4N, 4P, 3 No. 5, 7 No. 8, 3 No. 6, 7 No. 9	1/0F, 1F, 1G, 1J, 2A, 2G, 2J, 2K, 3A, 4D, 4N, 4P, 3 No. 5, 7 No. 8, 3 No. 6, 7 No. 9
	Galvanized Steel	11/32", 3/8"	11/32", 3/8"	11/32", 3/8"
	Solid: AL or CU	1/0	1/0	1/0

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STRANDED				
	ACSR Standard Round	6 6/1	4 6/1, 7/1, 5 6/1	2 6/1, 7/1, 3 6/1
	AAAC 6201-5005	6	4, 5	2, 3
	AAC Standard Round	6	4, 5	2, 3
	COPPER Standard Round	6	4, 5	2, 3
	AAC Compressed or Compacted	6	3, 4	1, 2
	ACSR Compressed or Compacted	6 6/1	4 6/1, 7/1	2 6/1, 7/1
	AWAC, ACAR	–	4 6/1	4 5/2, 4/3, 3/4, 3 6/1, 5/2, 4/3, 2 6/1
	ALUMOWELD COPPERWELD	8A, 8C 3 No. 12	6A, 6C, 7A, 7D, 8D, 3 No. 9, 3 No. 10, 7 No. 12	2F, 4A, 5A, 5D, 6D, 3 No. 7, 7 No. 10, 3 No. 8, 7 No. 11
	Galvanized Steel	3/16"	7/32", 1/4"	9/32", 5/16"
	Solid: AL or CU	4, 5, 6	2, 3	1
	Use TAP Number	**600528***	**600529***	**600525**

Red coded taps are not sold in North America and should be substituted with white coded taps shown on the following pages.
*UL Listed

STRANDED	Large Wire Groove Code	U	X	R	X	R	S
	ACSR Standard Round	8 6/1	6 6/1	6 6/1	4 6/1, 7/1, 5 6/1	4 6/1, 7/1, 5 6/1	4 6/1, 7/1, 5 6/1
	AAAC 6201-5005	–	6	6	4, 5	4, 5	4, 5
	AAC Standard Round	8	6	6	4, 5	4, 5	4, 5
	COPPER Standard Round	8	6	6	4, 5	4, 5	4, 5
	AAC Compressed or Compacted	8	6	6	3, 4	3, 4	3, 4
	ACSR Compressed or Compacted	–	6 6/1	6 6/1	4 6/1, 7/1	4 6/1, 7/1	4 6/1, 7/1
	AWAC, ACAR	–	–	–	4 6/1	4 6/1	4 6/1
	ALUMOWELD COPPERWELD	–	8A, 8C, 3 No. 12	8A, 8C, 3 No. 12	6A, 6C, 7A, 7D, 8D, 3 No. 9, 3 No. 10, 7 No. 12	6A, 6C, 7A, 7D, 8D, 3 No. 9, 3 No. 10, 7 No. 12	6A, 6C, 7A, 7D, 8D, 3 No. 9, 3 No. 10, 7 No. 12
	Galvanized Steel	5/32″	3/16″	3/16″	7/32″, 1/4″	7/32″, 1/4″	7/32″, 1/4″
	Solid: AL or CU	6, 8	4, 5	4, 5	2, 3	2, 3	2, 3
	TO	TO	TO	TO	TO	TO	TO
STRANDED							
	ACSR Standard Round	8 6/1	8 6/1	6 6/1	8 6/1	6 6/1	4 6/1, 7/1, 5 6/1
	AAAC 6201-5005	–	–	6	-	6	4, 5
	AAC Standard Round	8	8	6	8	6	4, 5
	COPPER Standard Round	8	8	6	8	6	4, 5
	AAC Compressed or Compacted	8	8	6	8	6	3, 4
	ACSR Compressed or Compacted	–	–	6 6/1	–	6 6/1	4 6/1, 7/1
	AWAC, ACAR	–	–	–	–	–	4 6/1
	ALUMOWELD COPPERWELD	–	–	8A, 8C 3 No. 12	–	8A, 8C 3 No. 12	6A, 6C, 7A, 7D, 8D, 3 No. 9, 7 No. 12, 3 No. 10,
	Galvanized Steel	5/32″	5/32″	3/16″	5/32″	3/16″	7/32″, 1/4″
	Solid: AL or CU	6, 8	8	4, 5, 6	8	5, 6	3, 4

Use TAP Number	**602283-5***	**602283-8**	**602283-4***	**602283-8**	**602283-4***	**602283-3***

White - Coded Type II Aluminum Taps - Aluminum to Aluminum, Aluminum to Copper, Copper to Copper (in non-corrosive environments)

*UL Listed

STRANDED	Large Wire Groove Code	Y	S	P	Q	W
	ACSR Standard Round	2 6/1, 7/1, 3 6/1	2 6/1, 7/1, 3 6/1	2 6/1, 7/1, 3 6/1	2 6/1, 7/1, 3 6/1	1/0, 1 6/1
	AAAC 6201-5005	2, 3	2, 3	2, 3	2, 3	1/0, 1
	AAC Standard Round	2, 3	2, 3	2, 3	2, 3	1/0, 1
	COPPER Standard Round	2, 3	2, 3	2, 3	2, 3	1/0, 1
	AAC Compressed or Compacted	1, 2	1, 2	1, 2	1, 2	1/0
	ACSR Compressed or Compacted	2 6/1, 7/1	2 6/1, 7/1	2 6/1, 7/1	2 6/1, 7/1	1/0, 1 6/1
	AWAC, ACAR	4 5/2, 4/3, 3/4, 3 6/1, 5/2, 4/3, 2 6/1	4 5/2, 4/3, 3/4, 3 6/1, 5/2, 4/3, 2 6/1	4 5/2, 4/3, 3/4, 3 6/1, 5/2, 4/3, 2 6/1	4 5/2, 4/3, 3/4, 3 6/1, 5/2, 4/3, 2 6/1	4 2/5, 3 3/4, 2/5, 2 5/2, 4/3, 3/4, 1 6/1, 5/2, 4/3, 1/0 6/1
	ALUMOWELD COPPERWELD	2F, 4A, 5A, 5D, 6D, 3 No. 7, 7 No. 10, 3 No. 8, 7 No. 11	2F, 4A, 5A, 5D, 6D, 3 No. 7, 7 No. 10, 3 No. 8, 7 No. 11	2F, 4A, 5A, 5D, 6D, 3 No. 7, 3 No. 8, 7 No. 10, 7 No. 11	2F, 4A, 5A, 5D, 6D, 3 No. 7, 3 No. 8, 7 No. 10, 7 No. 11	1/0F, 1F, 1G, 1J, 2A, 2G, 2J, 2K, 3A, 4D, 4N, 4P, 3 No. 5, 3 No. 6, 7 No. 8, 7 No.9
	Galvanized Steel	9/32″, 5/16″	9/32″, 5/16″	9/32″, 5/16″	9/32″, 5/16″	11/32″, 3/8″
	Solid: AL or CU	1	1	1, 2	1/0, 1	1/0
	TO	TO	TO	TO	TO	TO
STRANDED						
	ACSR Standard Round	8 6/1	6 6/1	4 6/1, 7/1, 5 6/1	2 6/1, 7/1, 3 6/1	8 6/1
	AAAC 6201-5005	–	6	4, 5	2, 3	–
	AAC Standard Round	8	6	4, 5	2, 3	8
	COPPER Standard Round	8	6	4, 5	2, 3	8
	AAC Compressed or Compacted	8	6	3, 4	1, 2	8
	ACSR Compressed or Compacted	–	6 6/1	4 6/1, 7/1	2 6/1, 7/1	–
	AWAC, ACAR	–	–	4 6/1	4 5/2, 4/3, 3/4, 3 6/1, 5/2, 4/3, 2 6/1	–
	ALUMOWELD COPPERWELD	–	8A, 8C 3 No. 12	6A, 6C, 7A, 7D, 8D, 3 No. 9, 3 No. 10, 7 No. 12	2F, 4A, 5A, 5D, 6D, 3 No. 7, 7 No. 10, 3 No. 8, 7 No. 11	–
	Galvanized Steel	5/32″	3/16″	7/32″, 1/4″	9/32″, 5/16″	5/32″
	Solid: AL or CU	6, 8	4, 5, 6	2, 3	1, 2	6, 8

Use TAP Number	**602283-7**	**602283-3***	**602283-2***	**602283-1***	**602283-6**

White - Coded Type II Aluminum Taps - Aluminum to Aluminum, Aluminum to Copper, Copper to Copper (in non-corrosive environments)

*UL Listed

	Large Wire Groove Code	P	Q	N
STRANDED	**ACSR** Standard Round	1/0, 1 6/1	1/0, 1 6/1	1/0, 1 6/1, 2 6/1, 7/1
	AAAC 6201-5005	1/0, 1	1/0, 1	1/0, 1
	AAC Standard Round	1/0, 1	1/0, 1	1/0, 1
	COPPER Standard Round	1/0, 1	1/0, 1	1/0, 1
	AAC Compressed or Compacted	1/0, 1	1/0	1/0
	ACSR Compressed or Compacted	1/0	1/0, 1 6/1	1/0, 1 6/1
	AWAC, ACAR	4 2/5, 3 3/4, 2/5, 2 5/2, 4/3, 3/4, 1 6/1, 5/2, 4/3, 1/0 6/1	4 2/5, 3 3/4, 2/5, 2 5/2, 4/3, 3/4, 1 6/1, 5/2, 4/3, 1/0 6/1	4 2/5, 3 3/4, 2/5, 2 5/2, 4/3, 3/4, 1 6/1, 5/2, 4/3, 1/0 6/1
	ALUMOWELD COPPERWELD	1/0F, 1F, 1G, 1J, 2A, 2G, 2J, 2K, 3A, 4D, 4N, 4P, 3 No. 5, 7 No. 8, 3 No. 6, 7 No. 9	1/0F, 1F, 1G,1J, 2A, 2G, 2J, 2K, 3A, 4D, 4N, 4P, 3 No. 5, 7 No. 8, 3 No. 6, 7 No. 9	1/0F, 1F, 1G,1J, 2A, 2G, 2J, 2K, 3A, 4D, 4N, 4P, 3 No. 5, 7 No. 8, 3 No. 6, 7 No. 9
	Galvanized Steel	11/32", 3/8"	11/32", 3/8"	11/32", 3/8"
	Solid: AL or CU	1/0	1/0	–

TO TO TO

STRANDED	**ACSR** Standard Round	6 6/1	4 6/1, 7/1, 5 6/1	2 6/1, 7/1, 3 6/1
	AAAC 6201-5005	6	4, 5	2, 3
	AAC Standard Round	6	4, 5	2, 3
	COPPER Standard Round	6	4, 5	2, 3
	AAC Compressed or Compacted	6	3, 4	1, 2
	ACSR Compressed or Compacted	6 6/1	4 6/1, 7/1	2 6/1, 7/1
	AWAC, ACAR	–	4 6/1	4 5/2, 4/3, 3/4, 3 6/1, 5/2, 4/3, 2 6/1
	ALUMOWELD COPPERWELD	8A, 8C 3 No. 12	6A, 6C, 7A, 7D, 8D, 3 No. 9, 3 No. 10, 7 No. 12	2F, 4A, 5A, 5D, 6D, 3 No. 7, 3 No. 8, 7 No. 10, 7 No. 11
	Galvanized Steel	3/16"	7/32", 1/4"	9/32", 5/16"
	Solid: AL or CU	4, 5, 6	2, 3	1

Use TAP Number	**602283-2***	**602283-1***	**602283***

White - Coded Type II Aluminum Taps - Aluminum to Aluminum, Aluminum to Copper, Copper to Copper (in non-corrosive environments)
*UL Listed

	Large Wire Groove Code	A	C	D	A	E	T
STRANDED	**ACSR** Standard Round	1/0, 1 6/1 2 6/1, 7/1	2/0, 1/0 6/1	2/0, 1/0 6/1	2/0, 1/0 6/1	2/0, 1/0 6/1	2/0, 1/0 6/1
	AAAC 6201-5005	1/0, 1, 2	2/0, 1/0	2/0, 1/0	2/0, 1/0	2/0, 1/0	2/0, 1/0
	AAC Standard Round	1/0, 1	2/0	2/0	2/0	2/0	2/0
	COPPER Standard Round	1/0, 1	2/0	2/0	2/0	2/0	2/0
	AAC Compressed or Compacted	1/0	2/0	2/0	2/0	2/0	2/0
	ACSR Compressed or Compacted	1/0, 1 6/1	2/0 6/1	2/0 6/1	2/0 6/1	2/0 6/1	2/0 6/1
	AWAC, ACAR	4 2/5, 3/4, 3 4/3, 3/4, 2/5, 2 6/1, 5/2, 4/3, 3/4, 1 6/1, 5/2, 4/3, 1/0 6/1	2 2/5, 1 3/4, 1/0 5/2, 4/3, 2/0 6/1	2 2/5, 1 3/4, 1/0 5/2, 4/3, 2/0 6/1	2 2/5, 1 3/4, 1/0 5/2, 4/3, 2/0 6/1	2 2/5, 1 3/4, 1/0 5/2, 4/3, 2/0 6/1	2 2/5, 1 3/4, 1/0 5/2, 4/3, 2/0 6/1
	ALUMOWELD COPPERWELD	1/0F, 1F, 1G, 1J, 2A, 2F, 2G, 2J, 2K, 3A, 4D, 4N,4P, 5D, 3 No. 5, 3 No. 6, 3 No. 7; 7 No. 8, 7 No. 9, 7 No. 10	2/0F, 1/0G, 1/0J, 1K, 2N, 7 No. 7	2/0F, 1/0G, 1/0J, 1K, 2N, 7 No. 7	2/0F, 1/0G, 1/0J, 1K, 2N, 7 No. 7	2/0F, 1/0G, 1/0J, 1K, 2N, 7 No. 7	2/0F, 1/0G, 1/0J, 1K, 2N, 7 No. 7
	Galvanized Steel	5/16", 11/32", 3/8"	7/16"	7/16"	7/16"	7/16"	7/16"
	Solid: AL or CU	2/0, 1/0	3/0	3/0	3/0, 2/0	3/0, 2/0	3/0, 2/0

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STRANDED	**ACSR** Standard Round	1/0, 1 6/1 2 6/1, 7/1	6 6/1	4 6/1, 7/1, 5 6/1	2 6/1, 7/1, 3 6/1	1/0, 1 6/1	2/0 6/1
	AAAC 6201-5005	1, 2	6, 5	4	2, 3	1/0, 1	2/0
	AAC Standard Round	1/0, 1	6, 5	4	2, 3	1/0, 1	2/0
	COPPER Standard Round	1/0, 1	6, 5	4	2, 3	1/0, 1	2/0
	AAC Compressed or Compacted	1/0	6	3, 4	1, 2	1/0	2/0
	ACSR Compressed or Compacted	1/0, 1 6/1	6 6/1	4 6/1, 7/1	2 6/1, 7/1	1/0, 1 6/1	2/0 6/1
	AWAC, ACAR	4 2/5, 3/4, 3 4/3, 3/4, 2/5, 2 6/1, 5/2, 4/3, 3/4, 1 6/1, 5/2, 4/3, 1/0 6/1	–	4 6/1	4 5/2, 4/3, 3/4, 3 6/1, 5/2, 4/3, 2 6/1	4 2/5, 3/4, 3 4/3, 3/4, 2/5, 2 6/1, 5/2, 4/3, 3/4, 1 6/1, 5/2, 4/3, 1/0 6/1	2 2/5, 1 3/4, 1/0 5/2, 4/3, 2/0 6/1
	ALUMOWELD COPPERWELD	1/0F, 1F, 1G, 1J, 2A, 2F, 2G, 2J, 2K, 3A, 4D, 4N,4P, 5D, 3 No. 5, 3 No. 6, 3 No. 7; 7 No. 8, 7 No. 9, 7 No. 10	8A, 8C, 3 No. 12	6A, 6C, 7A, 7D, 8D, 3 No. 9, 3 No. 10, 7 No. 12	2F, 4A, 5A, 5D, 6D, 3 No. 7, 3 No. 8, 7 No. 10, 7 No. 11	1/0F, 1F, 1G, 1J, 2A, 2G, 2J, 2K, 3A, 4D, 4N, 4P, 3 No. 5, 3 No. 6, 7 No. 8, 7 No. 9	2/0F, 1/0G, 1/0J, 1K, 2N, 7 No. 7
	Galvanized Steel	5/16", 11/32", 3/8"	3/16"	7/32", 1/4"	9/32", 5/16"	11/32", 3/8"	7/16"
	Solid: AL or CU	1/0	4, 5, 6	2, 3	1/0, 1, 2	2/0	3/0

Use TAP Number	**600403***	**600446***	**600447***	**600403***	**600448**	**600411***

*UL Listed

STRANDED	Large Wire Groove Code	C	D	E	T	K	H
	ACSR Standard Round	3/0 6/1	3/0 6/1	3/0 6/1	3/0 6/1	3/0 6/1	3/0 6/1
	AAAC 6201-5005	3/0	3/0	3/0	3/0	3/0	3/0
	AAC Standard Round	3/0	3/0	3/0	3/0	3/0	3/0
	COPPER Standard Round	3/0	3/0	3/0	3/0	3/0	3/0
	AAC Compressed or Compacted	3/0	3/0	3/0	3/0	3/0	3/0
	ACSR Compressed or Compacted	3/0 6/1	3/0 6/1	3/0 6/1	3/0 6/1	3/0 6/1	3/0 6/1
	AWAC, ACAR	1 2/5, 1/0 3/4, 2/0 5/2, 4/3, 3/0 6/1	1 2/5, 1/0 3/4, 2/0 5/2, 4/3, 3/0 6/1	1 2/5, 1/0 3/4, 2/0 5/2, 4/3, 3/0 6/1	1 2/5, 1/0 3/4, 2/0 5/2, 4/3, 3/0 6/1	1 2/5, 1/0 3/4, 2/0 5/2, 4/3, 3/0 6/1	1 2/5, 1/0 3/4, 2/0 5/2, 4/3, 3/0 6/1
	ALUMOWELD COPPERWELD	3/0F, 2/0G, 2/0J, 1/0F, 1N, 2P, 7 No. 6	3/0F, 2/0G, 2/0J, 1/0F, 1N, 2P, 7 No. 6	3/0F, 2/0G, 2/0J, 1/0F, 1N, 2P, 7 No. 6	3/0F, 2/0G, 2/0J, 1/0F, 1N, 2P, 7 No. 6	3/0F, 2/0G, 2/0J, 1/0F, 1N, 2P, 7 No. 6	3/0F, 2/0G, 2/0J, 1/0F, 1N, 2P, 7 No. 6
	Galvanized Steel	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
	Solid: AL or CU	4/0	4/0	4/0	4/0	4/0	4/0
	TO	TO	TO	TO	TO	TO	TO
STRANDED							
	ACSR Standard Round	6 6/1	4 6/1, 7/1, 5 6/1	2 6/1, 7/1, 3 6/1	1/0, 1 6/1	2/0 6/1	3/0 6/1
	AAAC 6201-5005	6	4, 5	2, 3	1/0, 1	2/0	3/0
	AAC Standard Round	6	4, 5	2, 3	1/0, 1	2/0	3/0
	COPPER Standard Round	6	4, 5	2, 3	1/0, 1	2/0	3/0
	AAC Compressed or Compacted	6	3, 4	1, 2	1/0	2/0	3/0
	ACSR Compressed or Compacted	6 6/1	4 6/1, 7/1	2 6/1, 7/1	1/0, 1 6/1	2/0 6/1	3/0 6/1
	AWAC, ACAR	–	4 6/1	4 5/2, 4/3, 3/4, 3 6/1, 5/2, 4/3, 2 6/1	4 2/5, 3 3/4, 2/5, 2 5/2, 4/3, 3/4, 1 6/1, 5/2, 4/3, 1/0 6/1	2 2/5, 1 3/4, 1/0 5/2, 4/3, 2/0 6/1	1 2/5, 1/0 3/4, 2/0 5/2, 4/3, 3/0 6/1
	ALUMOWELD COPPERWELD	8A, 8C, 3 No. 12	6A, 6C, 7A, 7D, 8D, 3 No. 9, 3 No. 10, 7 No. 12	2F, 4A, 5A, 5D, 6D, 3 No. 7, 3 No. 8, 7 No. 10, 7 No. 11	1/0F, 1F, 1G, 1J, 2A, 2G, 2J, 2K, 3A, 4D, 4N, 4P, 3 No. 5, 7 No.8, 3 No. 6, 7 No. 9	2/OF, 1/0G, 1/0J, 1K, 2N, 7 No. 7	3/0F, 2/0G, 2/0J, 1/0F, 1N, 2P 7 No. 6
	Galvanized Steel	3/16"	7/32", 1/4"	9/32", 5/16"	11/32", 3/8"	7/16"	1/2"
	Solid: AL or CU	4, 5, 6	2, 3	1/0, 1	2/0	3/0	4/0
	Use TAP Number	**600446***	**600447***	**600448***	**600411***	**600458***	**600459***

*UL Listed

STRANDED	Large Wire Groove Code	G	F	T	K	H	L
	ACSR Standard Round	4/0 6/1	4/0 6/1	4/0 6/1	4/0 6/1	4/0 6/1	4/0 6/1
	AAAC 6201-5005	4/0	4/0	4/0	4/0	4/0	4/0
	AAC Standard Round	4/0	4/0	4/0	4/0	4/0	4/0
	COPPER Standard Round	4/0	4/0	4/0	4/0	4/0	4/0
	AAC Compressed or Compacted	4/0, 250.0, 266.8	4/0, 250.0, 266.8	4/0, 250.0, 266.8	4/0, 250.0, 266.8	4/0, 250.0, 266.8	4/0, 250.0, 266.8
	ACSR Compressed or Compacted	4/0 6/1, 266.8 18/1	4/0 6/1, 266.8 18/1	4/0 6/1, 266.8 18/1	4/0 6/1, 266.8 18/1	4/0 6/1, 266.8 18/1	4/0 6/1, 266.8 18/1
	AWAC, ACAR	1/0 2/5, 2/0 3/4, 3/0 5/2, 4/3, 4/0 6/1	1/0 2/5, 2/0 3/4, 3/0 5/2, 4/3, 4/0 6/1	1/0 2/5, 2/0 3/4, 3/0 5/2, 4/3, 4/0 6/1	1/0 2/5, 2/0 3/4, 3/0 5/2, 4/3, 4/0 6/1	1/0 2/5, 2/0 3/4, 3/0 5/2, 4/3, 4/0 6/1	1/0 2/5, 2/0 3/4, 3/0 5/2, 4/3, 4/0 6/1
	ALUMOWELD COPPERWELD	1/0K, 2/0K, 4/0F, 7 No. 5, 19 No. 10	1/0K, 2/0K, 4/0F, 7 No. 5, 19 No. 10	1/0K, 2/0K, 4/0F, 7 No. 5, 19 No. 10	1/0K, 2/0K, 4/0F, 7 No. 5, 19 No. 10	1/0K, 2/0K, 4/0F, 7 No. 5, 19 No. 10	1/0K, 2/0K, 4/0F, 7 No. 5, 19 No. 10
	Galvanized Steel	9/16"	9/16"	9/16"	9/16"	9/16"	9/16"
	Solid: AL or CU	4/0, 250.0, 266.8, 300.0	4/0, 250.0, 266.8, 300.0	250.0, 266.8 300.0	250.0, 266.8, 300.0	250.0, 266.8, 300.0	250.0, 266.8, 300.0
	TO	TO	TO	TO	TO	TO	TO
STRANDED							
	ACSR Standard Round	6 6/1	4 6/1, 7/1, 5 6/1	2 6/1, 7/1, 3 6/1	1/0, 1 6/1	2/0 6/1	3/0 6/1
	AAAC 6201-5005	6	4, 5	2, 3	1/0, 1	2/0	3/0
	AAC Standard Round	6	4, 5	2, 3	1/0, 1	2/0	3/0
	COPPER Standard Round	6	4, 5	2, 3	1/0, 1	2/0	3/0
	AAC Compressed or Compacted	6	3, 4	1, 2	1/0	2/0	3/0
	ACSR Compressed or Compacted	6 6/1	4 6/1, 7/1	2 6/1, 7/1	1/0, 1 6/1	2/0 6/1	3/0 6/1
	AWAC, ACAR	–	4 6/1	2 6/1, 3 6/1, 5/2, 4/3, 4 5/2, 4/3, 3/4	1/0 6/1, 1 6/1, 5/2, 4/3, 2 5/2, 4/3, 3/4, 3 3/4, 2/5, 4 2/5	2 2/5, 1 3/4, 1/0 5/2, 4/3, 2/0 6/1	1 2/5, 1/0 3/4, 2/0 5/2, 4/3, 3/0 6/1
	ALUMOWELD COPPERWELD	8A, 8C, 3 No. 12	6A, 6C, 7A, 7D, 8D, 3 No. 9, 3 No. 10, 7 No. 12	2F, 4A, 5A, 5D, 6D, 3 No. 7, 3 No. 8, 7 No. 10, 7 No. 11	1/0F, 1F, 1G, 1J, 2A, 2G, 2J, 2K, 3A, 4D, 4N, 4P, 3 No. 5, 7 No. 8, 3 No. 6, 7 No. 9	2N, 1K, 1/0G, 1/0J, 2/0F, 7 No. 7	2P, 1N, 1/0F, 2/0J, 3/0F, 7 No. 6
	Galvanized Steel	3/16"	7/32", 1/4"	9/32", 5/16"	11/32", 3/8"	7/16"	1/2"
	Solid: AL or CU	4, 5, 6	2, 3, 4	1/0, 1	2/0	3/0	4/0
	Use TAP Number	**600455***	**600456***	**600411***	**600458***	**600459***	**600465***

*UL Listed

	Large Wire Groove Code	M	1	2	3	4	5
STRANDED	**ACSR** Standard Round	4/0 6/1	266.8 6/7, 18/1, 24/7, 26/7	266.8 6/7, 18/1, 24/7, 26/7	266.8 6/7, 18/1, 24/7, 26/7	266.8 6/7, 18/1, 24/7, 26/7	266.8 6/7, 18/1, 24/7, 26/7
	AAAC 6201-5005	4/0	281.4, 307.1, 312.8	281.4, 307.1, 312.8	281.4, 307.1, 312.8	281.4, 307.1, 312.8	281.4, 307.1, 312.8
	AAC Standard Round	4/0	250.0, 266.8, 300.0	250.0, 266.8, 300.0	250.0, 266.8, 300.0	250.0, 266.8, 300.0	250.0, 266.8, 300.0
	COPPER Standard Round	4/0	250.0, 300.0	250.0, 300.0	250.0, 300.0	250.0, 300.0	250.0, 300.0
	AAC Compressed or Compacted	4/0, 250.0, 266.8	300.0, 336.4, 350.0	300.0, 336.4, 350.0	300.0, 336.4, 350.0	300.0, 336.4, 350.0	300.0, 336.4, 350.0
	ACSR Compressed or Compacted	4/0 6/1, 266.8 18/1	266.8, 336.4 18/1	266.8, 336.4 18/1	266.8, 336.4 18/1	266.8, 336.4 18/1	266.8, 336.4 18/1
	AWAC, ACAR	1/0 2/5, 2/0 3/4, 3/0 5/2, 4/3, 4/0 6/1	4/0 15/4	4/0 15/4	4/0 15/4	4/0 15/4	4/0 15/4
	ALUMOWELD COPPERWELD	1/0K, 2/0K, 4/0F, 7 No. 5, 19 No. 10	4/0E, 4/0G, 7 No. 4, 19 No. 8, 19 No. 9	4/0E, 4/0G, 7 No. 4, 19 No. 8, 19 No. 9	4/0E, 4/0G, 7 No. 4, 19 No. 8, 19 No. 9	4/0E, 4/0G, 7 No. 4, 19 No. 8, 19 No. 9	4/0E, 4/0G, 7 No. 4, 19 No. 8, 19 No. 9
	Galvanized Steel	9/16″	5/8″	5/8″	5/8″	5/8″	5/8″
	Solid: AL or CU	250.0, 266.8, 300.0	336.4, 350.0, 397.5, 400.0	336.4, 350.0, 397.5, 400.0	336.4, 350.0, 397.5, 400.0	336.4, 350.0, 397.5, 400.0	336.4, 350.0, 397.5, 400.0
		TO	TO	TO	TO	TO	TO
STRANDED	**ACSR** Standard Round	4/0 6/1	6 6/1	4 6/1, 7/1, 5 6/1	2 6/1, 7/1, 3 6/1	1/0, 1 6/1	2/0 6/1
	AAAC 6201-5005	4/0	6	4, 5	2, 3	1/0, 1	2/0
	AAC Standard Round	4/0	6	4, 5	1, 2, 3	1/0	2/0
	COPPER Standard Round	4/0	6	4, 5	1, 2, 3	1/0	2/0
	AAC Compressed or Compacted	4/0, 250.0, 266.8	6	3, 4	1, 2	1/0, 2/0	3/0
	ACSR Compressed or Compacted	4/0 6/1, 266.8 18/1	6 6/1	4 6/1, 7/1	1 6/1, 2 6/1, 7/1	1/0, 2/0 6/1	3/0 6/1
	AWAC, ACAR	1/0 2/5, 2/0 3/4, 3/0 5/2, 4/3, 4/0 6/1	–	4 6/1	2 6/1, 5/2, 3 6/1, 5/2, 4/3, 4 4/3, 3/4, 5/2	4 2/5, 3 3/4, 2/5, 2 4/3, 3/4, 1 6/1, 5/2, 4/3, 1/0 6/1	2 2/5, 1 3/4, 1/0 5/2, 4/3, 2/0 6/1
	ALUMOWELD COPPERWELD	1/0K, 2/0K, 4/0F, 7 No. 5, 19 No. 10	8A, 8C, 3 No. 12	5A, 6A, 6C, 7A, 7D, 8D, 3 No. 9, 3 No. 10, 7 No. 12	2F, 2G, 3A, 4A, 4N, 5D, 6D 3 No. 7, 3 No. 8, 7 No. 10, 7 No. 11	1/0F, 1F, 1G, 1J, 2A, 2J, 2K, 4D, 4P, 3 No. 5, 7 No. 8, 3 No. 6, 7 No. 9	1K, 1/0G, 1/0J, 2N, 2P, 2/0F, 7 No. 7
	Galvanized Steel	9/16″	3/16″	7/32″, 1/4″	9/32″, 5/16″	11/32″, 3/8″	7/16″
	Solid: AL or CU	250.0, 266.8, 300.0	4, 5, 6	2, 3	1/0, 1	2/0, 3/0	4/0
	Use TAP Number	**600466***	**602046-1***	**602046-2***	**602046-3***	**602046-4***	**602046-5***

*UL Listed

	Large Wire Groove Code	6	7	9	19	18	17
STRANDED	**ACSR** Standard Round	266.8 6/7, 18/1, 24/7, 26/7	266.8 6/7, 18/1, 24/7, 26/7	266.8 6/7, 18/1, 24/7, 26/7	266.8 6/7, 18/1, 24/7, 26/7, 30/7, 300.0 18/1, 24/7, 26/7, 336.4 18/1	266.8 6/7, 18/1, 24/7, 26/7, 30/7, 300.0 18/1, 24/7, 26/7, 336.4 18/1	266.8 6/7, 18/1, 24/7, 26/7, 30/7, 300.0 18/1, 24/7, 26/7, 336.4 18/1
	AAAC 6201-5005	281.4, 307.1, 312.8	281.4, 307.1, 312.8	281.4, 307.1, 312.8	281.4, 307.1, 312.8, 355.1	281.4, 307.1, 312.8, 355.1	281.4, 307.1, 312.8, 355.1
	AAC Standard Round	250.0, 266.8, 300.0	250.0, 266.8, 300.0	250.0, 266.8, 300.0	300.0. 336.4, 350.0	300.0. 336.4, 350.0	300.0. 336.4, 350.0
	COPPER Standard Round	250.0, 300.0	250.0, 300.0	250.0, 300.0	250.0, 300.0, 350.0	250.0, 300.0, 350.0	250.0, 300.0, 350.0
	AAC Compressed or Compacted	300.0, 336.4, 350.0	300.0, 336.4, 350.0	300.0, 336.4, 350.0	336.4, 350.0, 397.5	336.4, 350.0, 397.5	336.4, 350.0, 397.5
	ACSR Compressed or Compacted	266.8, 336.4 18/1	266.8, 336.4 18/1	266.8, 336.4 18/1	336.4, 397.5 18/1	336.4, 397.5 18/1	336.4, 397.5 18/1
	AWAC, ACAR	4/0 15/4	4/0 15/4	4/0 15/4	336.4 18/1, 343.6 15/4, 355.0 15/4, 12/7	336.4 18/1, 343.6 15/4, 355.0 15/4, 12/7	336.4 18/1, 343.6 15/4, 355.0 15/4, 12/7
	ALUMOWELD COPPERWELD	4/0E, 4/0G, 7 No. 4, 19 No. 8, 19 No. 9	4/0E, 4/0G, 7 No. 4, 19 No. 8, 19 No. 9	4/0E, 4/0G, 7 No. 4, 19 No. 8, 19 No. 9	4/0E, 7 No. 4, 19 No. 8	4/0E, 7 No. 4, 19 No. 8	4/0E, 7 No. 4, 19 No. 8
	Galvanized Steel	5/8″	5/8″	5/8″	5/8″	5/8″	5/8″
	Solid: AL or CU	336.4, 350.0, 397.5, 400.0	336.4, 350.0, 397.5, 400.0	336.4, 350.0, 397.5, 400.0	397.5, 400.0, 450.0	397.5, 400.0, 450.0	397.5, 400.0, 450.0
		TO	TO	TO	TO	TO	TO
STRANDED	**ACSR** Standard Round	3/0 6/1	4/0 6/1	266.8 6/7, 18/1, 24/7, 26/7	6 6/1	4 6/1, 7/1, 5 6/1	2 6/1, 7/1, 3 6/1
	AAAC 6201-5005	3/0	4/0	281.4, 307.1, 312.8	6	4, 5	2, 3
	AAC Standard Round	3/0	4/0 , 250.0	266.8, 300.0	6	4, 5	1, 2, 3
	COPPER Standard Round	3/0	4/0, 250.0	300.0	6	4, 5	1, 2, 3
	AAC Compressed or Compacted	4/0, 250.0	266.8, 300.0	336.4, 350.0	6	3, 4	1, 2
	ACSR Compressed or Compacted	4/0 6/1	266.8 18/1	336.4 18/1	6 6/1	4 6/1, 7/1	1 6/1, 2 6/1, 7/1
	AWAC, ACAR	1 2/5, 1/0 3/4, 2/0 5/2, 4/3, 3/0 6/1	1/0 2/5, 2/0 3/4, 3/0 5/2, 4/3, 4/0 6/1, 15/4	–	–	4 6/1	2 6/1, 5/2, 3 6/1, 5/2, 4/3, 4 4/3, 3/4, 5/2
	ALUMOWELD COPPERWELD	1N, 1/0K, 2/0G, 2/0J, 3/0F, 7 No. 6, 19 No. 10	2/0K, 4/0F, 7 No. 5, 19 No. 10	4/0E, 4/0G, 7 No. 4, 19 No. 8	8A, 8C, 3 No. 12	5A, 6A, 6C, 7A, 7D, 8D, 3 No. 9, 3 No. 10, 7 No. 12	2F, 2G, 3A,4A, 4N, 5D, 6D, 3 No. 7, 3 No. 8, 7 No. 10, 7 No. 11
	Galvanized Steel	1/2″	9/16″	5/8″	3/16″	7/32″, 1/4″	9/32″, 5/16″
	Solid: AL or CU	250.0, 266.8	300.0	336.4, 350.0, 397.5, 400.0	4, 5, 6	2, 3	1/0, 1
	Use TAP Number	**602046-6***	**602046-7***	**602046-9***	**602380***	**602380-1***	**602380-2***

*UL Listed

	Large Wire Groove Code	5	6	7	9	16
STRANDED	**ACSR** Standard Round	266.8 6/7, 18/1, 24/7, 26/7, 30/7, 300.0 18/1, 24/7, 26/7, 336.4 18/1	266.8 6/7, 18/1, 24/7, 26/7, 30/7, 300.0 18/1, 24/7, 26/7, 336.4 18/1	266.8 6/7, 18/1, 24/7, 26/7, 30/7, 300.0 18/1, 24/7, 26/7, 336.4 18/1	266.8 6/7, 18/1, 24/7, 26/7, 30/7, 300.0 18/1, 24/7, 26/7, 336.4 18/1	266.8 6/7, 18/1, 24/7, 26/7, 30/7, 300.0 18/1, 24/7, 26/7, 336.4 18/1
	AAAC 6201-5005	281.4, 307.1, 312.8, 355.1	281.4, 307.1, 312.8, 355.1	281.4, 307.1, 312.8, 355.1	281.4, 307.1, 312.8, 355.1	281.4, 307.1, 312.8, 355.1
	AAC Standard Round	300.0. 336.4, 350.0	300.0. 336.4, 350.0	300.0. 336.4, 350.0	300.0. 336.4, 350.0	300.0. 336.4, 350.0
	COPPER Standard Round	250.0, 300.0, 350.0	250.0, 300.0, 350.0	250.0, 300.0, 350.0	250.0, 300.0, 350.0	250.0, 300.0, 350.0
	AAC Compressed or Compacted	336.4, 350.0, 397.5	336.4, 350.0, 397.5	336.4, 350.0, 397.5	336.4, 350.0, 397.5	336.4, 350.0, 397.5
	ACSR Compressed or Compacted	336.4, 397.5 18/1	336.4, 397.5 18/1	336.4, 397.5 18/1	336.4, 397.5 18/1	336.4, 397.5 18/1
	AWAC, ACAR	336.4 18/1, 343.6 15/4, 355.0 15/4, 12/7	336.4 18/1, 343.6 15/4, 355.0 15/4, 12/7	336.4 18/1, 343.6 15/4, 355.0 15/4, 12/7	336.4 18/1, 343.6 15/4, 355.0 15/4, 12/7	336.4 18/1, 343.6 15/4, 355.0 15/4, 12/7
	ALUMOWELD COPPERWELD	4/0 E, 7 No. 4, 19 No. 8	4/0 E, 7 No. 4, 19 No. 8	4/0 E, 7 No. 4, 19 No. 8	4/0 E, 7 No. 4, 19 No. 8	4/0 E, 7 No. 4, 19 No. 8
	Galvanized Steel	5/8″	5/8″	5/8″	5/8″	5/8″
	Solid: AL or CU ◯	397.5, 400.0, 450.0	397.5, 400.0, 450.0	397.5, 400.0, 450.0	397.5, 400.0, 450.0	397.5, 400.0, 450.0
	TO	TO	TO	TO	TO	TO
STRANDED	**ACSR** Standard Round	1/0, 1 6/1	2/0 6/1	3/0 6/1	4/0 6/1	266.8 6/7, 18/1, 24/7, 26/7, 30/7, 300.0 18/1, 24/7, 26/7, 336.4 18/1
	AAAC 6201-5005	1/0, 1	2/0	3/0	4/0	281.4, 307.1, 312.8, 355.1
	AAC Standard Round	1/0	2/0	3/0	4/0, 250.0, 266.8	300.0, 336.4, 350.0
	COPPER Standard Round	1/0	2/0	3/0	4/0, 250.0	–
	AAC Compressed or Compacted	1/0, 2/0	3/0	4/0, 250.0	266.8, 300.0	336.4, 350.0
	ACSR Compressed or Compacted	1/0, 2/0 6/1	3/0 6/1	4/0 6/1	266.8 18/1	336.4 18/1
	AWAC, ACAR	4 2/5, 3 3/4, 2/5, 2 4/3, 3/4, 1 6/1, 5/2, 4/3, 1/0 6/1	2 2/5, 1 3/4, 1/0 5/2, 4/3, 2/0 6/1	1 2/5, 1/0 3/4, 2/0 5/2, 4/3, 3/0 6/1	1/0 2/5, 2/0 3/4, 3/0 5/2, 4/3, 4/0 6/1, 15/4	336.4 18/1, 343.6 15/4 350.0 15/4, 12/7
	ALUMOWELD COPPERWELD	1/0F, 1F, 1G, 1J, 2A, 2J, 2K, 4D, 4P, 3 No. 5, 3 No. 6, 7 No. 8, 7 No. 9	1K, 1/0G, 1/0J, 2N, 2P, 2/0F, 7 No. 7	1N, 1/0K, 2/0G, 2/0J, 3/0F, 7 No. 6, 19 No. 10	2/0K, 4/0F, 4/0G, 7 No. 5, 19 No. 9	4/0E, 7 No. 4, 19 No. 8
	Galvanized Steel	11/32″, 3/8″	7/16″	1/2″	9/16″	5/8″
	Solid: AL or CU ◯	2/0, 3/0	4/0	250.0, 266.8	350.0, 336.4, 300.0	–
	Use TAP Number	**602380-3***	**602380-4***	**602380-5***	**602380-6***	**602380-7***

*UL Listed

	Large Wire Groove Code						
STRANDED	**ACSR** Standard Round	336.4 18/1, 24/7, 26/7, 266.8 30/7, 300.0 18/1 24/7, 26/7, 30/7	336.4 18/1, 24/7, 26/7, 266.8 30/7, 300.0 18/1 24/7, 26/7, 30/7	336.4 18/1, 24/7, 26/7, 266.8 30/7, 300.0 18/1 24/7, 26/7, 30/7	336.4 18/1, 24/7, 26/7, 266.8 30/7, 300.0 18/1 24/7, 26/7, 30/7	336.4 18/1, 24/7, 26/7, 266.8 30/7, 300.0 18/1 24/7, 26/7, 30/7	336.4 18/1, 24/7, 26/7, 266.8 30/7, 300.0 18/1 24/7, 26/7, 30/7
	AAAC 6201-5005	355.1	355.1	355.1	355.1	355.1	355.1
	AAC Standard Round	336.4, 350.0 397.5, 400.0	336.4, 350.0 397.5, 400.0	336.4, 350.0 397.5, 400.0	336.4, 350.0 397.5, 400.0	336.4, 350.0 397.5, 400.0	336.4, 350.0 397.5, 400.0
	COPPER Standard Round	350.0, 400.0	350.0, 400.0	350.0, 400.0	350.0, 400.0	350.0, 400.0	350.0, 400.0
	AAC Compressed or Compacted	336.4, 350.0, 397.5	336.4, 350.0, 397.5	336.4, 350.0, 397.5	336.4, 350.0, 397.5	336.4, 350.0, 397.5	336.4, 350.0, 397.5
	ACSR Compressed or Compacted	336.4, 397.5 18/1	336.4, 397.5 18/1	336.4, 397.5 18/1	336.4, 397.5 18/1	336.4, 397.5 18/1	336.4, 397.5 18/1
	AWAC, ACAR	336.4 18/1, 16/3, 15/4, 343.6 15/4, 355.0 15/4, 12/7	336.4 18/1, 16/3, 15/4, 343.6 15/4, 355.0 15/4, 12/7	336.4 18/1, 16/3, 15/4, 343.6 15/4, 355.0 15/4, 12/7	336.4 18/1, 16/3, 15/4, 343.6 15/4, 355.0 15/4, 12/7	336.4 18/1, 16/3, 15/4, 343.6 15/4, 355.0 15/4, 12/7	336.4 18/1, 16/3, 15/4, 343.6 15/4, 355.0 15/4, 12/7
	ALUMOWELD COPPERWELD	4/0 E, 19 No. 7, 19 No. 8, 7 No. 4, 37 No. 10	4/0 E, 19 No. 7, 19 No. 8, 7 No. 4, 37 No. 10	4/0 E, 19 No. 7, 19 No. 8, 7 No. 4, 37 No. 10	4/0 E, 19 No. 7, 19 No. 8, 7 No. 4, 37 No. 10	4/0 E, 19 No. 7, 19 No. 8, 7 No. 4, 37 No. 10	4/0 E, 19 No. 7, 19 No. 8, 7 No. 4, 37 No. 10
	Galvanized Steel	5/8″	5/8″	5/8″	5/8″	5/8″	5/8″
	Solid: AL or CU ◯	450.0, 477.0, 500.0	450.0, 477.0, 500.0	450.0, 477.0, 500.0	450.0, 477.0, 500.0	450.0, 477.0, 500.0	450.0, 477.0, 500.0
	TO	TO	TO	TO	TO	TO	TO
STRANDED	**ACSR** Standard Round	6 6/1	4 6/1, 7/1, 5 6/1	2 6/1, 7/1, 3 6/1	1/0, 1 6/1	2/0 6/1	3/0 6/1
	AAAC 6201-5005	6	4, 5	2, 3	1/0, 1	2/0	3/0
	AAC Standard Round	6	4, 5	2, 3	1/0, 1	2/0	3/0
	COPPER Standard Round	6	4, 5	2, 3	1/0, 1	2/0	3/0
	AAC Compressed or Compacted	6	3, 4	1, 2	1/0	2/0	3/0, 4/0
	ACSR Compressed or Compacted	6 6/1	4 6/1, 7/1	2 6/1, 7/1	1/0, 1 6/1	2/0 6/1	3/0 6/1
	AWAC, ACAR	–	4 6/1	2 6/1, 3 6/1, 5/2, 4/3, 4 5/2, 4/3, 3/4	1/0 1/6, 1 6/1, 5/2, 4/3, 2 5/2, 4/3, 3/4, 3 3/4, 2/5, 4 2/5	2 2/5, 1 3/4, 1/0 5/2, 4/3, 2/0 6/1, 4/3,	1 2/5, 1/0 3/4, 2/0 5/2, 3/0 6/1
	ALUMOWELD COPPERWELD	8A, 8C, 3 No. 12	6A, 6C, 7A, 7D, 8D, 3 No. 9, 3 No. 10, 7 No. 10	2F, 4A, 5A, 5D, 6D, 3 No. 7, 3 No. 8, 7 No. 10, 7 No. 11	1/0F, 1F, 1G, 1J, 2A, 2G, 2J, 2K, 3A, 4D, 4N, 4P, 3 No. 5, 3 No. 6, 7 No. 8, 7 No. 9	2N, 1K, 1/0G, 1/0J, 2/0F, 7 No. 7	2P, 1N, 2/0G 2/0J, 3/0F, 7 No. 6
	Galvanized Steel	3/16″	7/32″, 1/4″	9/32″, 5/16″	11/32″, 3/8″	7/16″	1/2″
	Solid: AL or CU ◯	4, 5, 6	2, 3, 4	1/0, 1, 2	1/0, 2/0	2/0, 3/0	4/0
	Use TAP Number	**602014***	**602013***	**602000***	**602001***	**602002***	**602003***

*UL Listed

STRANDED	Large Wire Groove Code						
	ACSR Standard Round	336.4 18/1, 24/7, 26/7, 266.8 30/7, 300.0 18/1 24/7, 26/7, 30/7	336.4 18/1, 24/7, 26/7, 266.8 30/7, 300.0 18/1 24/7, 26/7, 30/7	336.4 18/1, 24/7, 26/7, 266.8 30/7, 300.0 18/1 24/7, 26/7, 30/7	477.0, 397.5 18/1, 24/7, 26/7, 397.5, 336.4 30/7	477.0, 397.5 18/1, 24/7, 26/7, 397.5, 336.4 30/7	477.0, 397.5 18/1, 24/7, 26/7, 397.5, 336.4 30/7
	AAAC 6201-5005	355.1	355.1	355.1	419.6, 465.4, 466.3, 503.6, 559.5	419.6, 465.4, 466.3, 503.6, 559.5	419.6, 465.4, 466.3, 503.6, 559.5
	AAC Standard Round	336.4, 350.0 397.5, 400.0	336.4, 350.0 397.5, 400.0	336.4, 350.0 397.5, 400.0	450.0, 477.0, 500.0, 550.0, 556.5	450.0, 477.0, 500.0, 550.0, 556.5	450.0, 477.0, 500.0, 550.0, 556.5
	COPPER Standard Round	350.0, 400.0	350.0, 400.0	350.0, 400.0	450.0, 500.0, 550.0	450.0, 500.0, 550.0	450.0, 500.0, 550.0
	AAC Compressed or Compacted	336.4, 350.0, 397.5	336.4, 350.0, 397.5	336.4, 350.0, 397.5	–	–	–
	ACSR Compressed or Compacted	336.4, 397.5 18/1	336.4, 397.5 18/1	336.4, 397.5 18/1	477.0, 556.5	477.0, 556.5	477.0, 556.5
	AWAC, ACAR	336.4 18/1, 16/3, 15/4, 343.6 15/4, 355.0 15/4, 12/7	336.4 18/1, 16/3, 15/4, 343.6 15/4, 355.0 15/4, 12/7	336.4 18/1, 16/3, 15/4, 343.6 15/4, 355.0 15/4, 12/7	503.6 15/4, 12/7	503.6 15/4, 12/7	503.6 15/4, 12/7
	ALUMOWELD COPPERWELD	4/0 E, 19 No. 7, 19 No. 8, 7 No. 4, 37 No. 10	4/0 E, 19 No. 7, 19 No. 8, 7 No. 4, 37 No. 10	4/0 E, 19 No. 7, 19 No. 8, 7 No. 4, 37 No. 10	19 No. 6, 37 No. 9	19 No. 6, 37 No. 9	19 No. 6, 37 No. 9
	Galvanized Steel	5/8″	5/8″	5/8″	3/4″	3/4″	3/4″
	Solid: AL or CU	450.0, 477.0, 500.0	450.0, 477.0, 500.0	450.0, 477.0, 500.0	–	–	–
	TO						
STRANDED							
	ACSR Standard Round	4/0 1/6	266.8 6/7, 18/1, 24/7, 26/7, 4/0 6/1	300.0, 336.4 18/1, 24/7, 26/7, 266.8, 300.0 30/7, 266.8 6/7	6 6/1	4 6/1, 7/1, 5 6/1	2 6/1, 7/1, 3 6/1
	AAAC 6201-5005	4/0	4/0, 281.4, 307.1, 312.8	355.1, 394.5	6	4, 5	2, 3
	AAC Standard Round	4/0	250.0, 266.8, 300.0	336.4, 350.0, 397.5, 400.0	6	4, 5	2, 3
	COPPER Standard Round	4/0	250.0, 300.0	350.0, 400.0	6	4, 5	2, 3
	AAC Compressed or Compacted	250.0, 266.8	300.0, 336.4, 350.0	397.5	6	3, 4	1, 2
	ACSR Compressed or Compacted	4/0 6/1, 266.8 18/1	266.8 18/1	397.5 18/1	6 6/1	4 6/1, 7/1	2 6/1, 7/1
	AWAC, ACAR	1/0 2/5, 2/0 3/4, 3/0 5/2, 4/3, 4 6/1	4/0 15/4	336.4 18/1, 16/3, 15/4, 355.0 15/4, 12/7, 343.6 15/4	–	4 6/1	2 6/1, 3 6/1, 5/2, 4/3, 4 5/2, 4/3, 3/4
	ALUMOWELD COPPERWELD	2/0K, 4/0F 7 No. 5, 19 No. 10	4/0G, 7 No. 4, 19 No. 8, 19 No. 9	19 No. 7, 37 No.10	8A, 8C, 3 No. 12	6A, 6C, 7A, 7D, 8D, 3 No. 9, 3 No. 10, 7 No. 12	2F, 4A, 5A, 5D, 6D, 3 No. 7, 3 No. 8, 7 No. 10, 7 No. 11
	Galvanized Steel	9/16″	9/16″, 5/8″	_	3/16″	7/32″, 1/4″	9/32″, 5/16″
	Solid: AL or CU	250.0, 266.8, 300.0	336.4, 350.0, 397.5, 400.0	450.0, 477.0, 500.0	4, 5, 6	2, 3, 4	1/0, 1, 2
	Use TAP Number	**602004***	**602006***	**602007***	**I-602031-0***	**602031-9***	**602031-8***

*UL Listed

STRANDED	Large Wire Groove Code						
	ACSR Standard Round	477.0 26/7, 24/7, 18/1, 336.4 30/7, 397.5 30/7 26/7, 24/7, 18/1	477.0 26/7, 24/7, 18/1, 336.4 30/7, 397.5 30/7 26/7, 24/7, 18/1	477.0 26/7, 24/7, 18/1, 336.4 30/7, 397.5 30/7 26/7, 24/7, 18/1	477.0 26/7, 24/7, 18/1, 336.4 30/7, 397.5 30/7 26/7, 24/7, 18/1	477.0 26/7, 24/7, 18/1, 336.4 30/7, 397.5 30/7 26/7, 24/7, 18/1	477.0 26/7, 24/7, 18/1, 336.4 30/7, 397.5 30/7 26/7, 24/7, 18/1
	AAAC 6201-5003	419.5, 466.3, 465.4, 503.6	419.5, 466.3, 465.4, 503.6	419.5, 466.3, 465.4, 503.6	419.5, 466.3, 465.4, 503.6	419.5, 466.3, 465.4, 503.6	419.5, 466.3, 465.4, 503.6
	AAC Standard Round	450.0, 477.0, 500.0, 550.0, 556.5	450.0, 477.0, 500.0, 550.0, 556.5	450.0, 477.0, 500.0, 550.0, 556.5	450.0, 477.0, 500.0, 550.0, 556.5	450.0, 477.0, 500.0, 550.0, 556.5	450.0, 477.0, 500.0, 550.0, 556.5
	COPPER Standard Round	450.0, 500.0, 550.0	450.0, 500.0, 550.0	450.0, 500.0, 550.0	450.0, 500.0, 550.0	450.0, 500.0, 550.0	450.0, 500.0, 550.0
	AAC Compressed or Compacted	–	–	–	–	–	–
	ACSR Compressed or Compacted	477.0, 556.5	477.0, 556.5	477.0, 556.5	477.0, 556.5	477.0, 556.5	477.0, 556.5
	AWAC, ACAR	503.6 15/4, 12/7	503.6 15/4, 12/7	503.6 15/4, 12/7	503.6 15/4, 12/7	503.6 15/4, 12/7	503.6 15/4, 12/7
	ALUMOWELD COPPERWELD	19 No. 6, 37 No. 9	19 No. 6, 37 No. 9	19 No. 6, 37 No. 9	19 No. 6, 37 No. 9	19 No. 6, 37 No. 9	19 No. 6, 37 No. 9
	Galvanized Steel	3/4″	3/4″	3/4″	3/4″	3/4″	3/4″
	Solid: AL or CU	–	–	–	–	–	–
	TO						
STRANDED							
	ACSR Standard Round	1/0 6/1	2/0 6/1	3/0 6/1	4/0 6/1	266.8 30/7, 24/7, 6/7, 18/1	266.8 30/7, 24/7, 6/7, 18/1
	AAAC 6201-5003	1/0	2/0	3/0	4/0	281.4, 307.1, 312.8	355.1, 394.5
	AAC Standard Round	1/0	2/0	3/0	4/0	250.0, 266.8, 300.0	336.4, 350.0, 397.5, 400.0
	COPPER Standard Round	1/0	2/0	3/0	4/0	250.0, 300.0	350.0, 400.0
	AAC Compressed or Compacted	1/0	2/0	3/0	250.0, 266.8	300.0, 336.4	397.5
	ACSR Compressed or Compacted	1/0 6/1	2/0 6/1	3/0 6/1	266.8 18/1, 4/0 6/1	336.4 18/1	397.5
	AWAC, ACAR	3 3/4, 2 4/3, 1 5/2, 6/1	2/0 6/1, 1/0 5/2, 6/1, 1 3/4, 4/3, 2 2/5, 3/4, 3 2/5	3/0 6/1, 2/0 4/3, 5/2, 1/0 3/4, 4/3, 1 2/5	4/0 6/1, 3/0 5/2, 2/0 3/4, 1/0 2/5	3/0 4/3, 4/0 15/4	355.0 15/4, 12/7, 343.6 15/4, 336.4 15/4, 16/3, 18/1
	ALUMOWELD COPPERWELD	4P, 2K, 2J, 1G, 1F, 7 No. 9, 3 No. 6	2/0F, 1/0J, 1/0G, 1/0F, 1K, 1J, 2N, 7 No. 7, 7 No. 8, 3 No. 5	3/0F, 2/0J, 2/0G, 1/0K, 1N, 2P, 7 No.6	19 No. 10, 7 No. 5, 4/0 F, 2/0 K	19 No. 8, 19 No. 9, 7 No. 4, 4/0 E, 4/0 G	19 No. 7, 37 No. 10
	Galvanized Steel	3/8″	7/16″	1/2″	_	9/16″, 5/8″	_
	Solid: AL or CU	2/0	3/0	4/0	300.0, 250.0	400.0, 350.0	450.0, 500.0
	Use TAP Number	**I-602031-9***	**I-602031-8***	**I-602031-7***	**I-602031-6***	**I-602031-5***	**I-602031-4***

*UL Listed

STRANDED	Large Wire Groove Code						
	ACSR Standard Round	477.0 26/7, 24/7, 18/1, 336.4 30/7, 397.5 30/7 26/7, 24/7, 18/1	556.5 26/7, 24/7, 18/1, 477.0 30/7, 26/7	556.5 26/7, 24/7, 18/1, 477.0 30/7, 26/7	556.5 26/7, 24/7, 18/1, 477.0 30/7, 26/7	556.5 26/7, 24/7, 18/1, 477.0 30/7, 26/7	556.5 26/7, 24/7, 18/1, 477.0 30/7, 26/7
	AAAC 6201-5003	419.5, 466.3, 465.4, 503.6	559.5, 587.2, 599.6, 652.4, 652.8	559.5, 587.2, 599.6, 652.4, 652.8	559.5, 587.2, 599.6, 652.4, 652.8	559.5, 587.2, 599.6, 652.4, 652.8	559.5, 587.2, 599.6, 652.4, 652.8
	AAC Standard Round	450.0, 477.0, 500.0, 550.0, 556.5	556.5, 600.0, 636.0	556.5, 600.0, 636.0	556.5, 600.0, 636.0	556.5, 600.0, 636.0	556.5, 600.0, 636.0
	COPPER Standard Round	450.0, 500.0, 550.0	550.0, 600.0	550.0, 600.0	550.0, 600.0	550.0, 600.0	550.0, 600.0
	AAC Compressed or Compacted	–	–	–	–	–	–
	ACSR Compressed or Compacted	477.0, 556.5	636.0 18/1	636.0 18/1	636.0 18/1	636.0 18/1	636.0 18/1
	AWAC, ACAR	503.6 15/4, 12/7	653.1 15/4, 12/7, 568.3 15/4	653.1 15/4, 12/7, 568.3 15/4	653.1 15/4, 12/7, 568.3 15/4	653.1 15/4, 12/7, 568.3 15/4	653.1 15/4, 12/7, 568.3 15/4
	ALUMOWELD COPPERWELD	19 No. 6, 37 No. 9	19 No. 5, 37 No. 8	19 No. 5, 37 No. 8	19 No. 5, 37 No. 8	19 No. 5, 37 No. 8	19 No. 5, 37 No. 8
	Galvanized Steel	3/4"	7/8"	7/8"	7/8"	7/8"	7/8"
	Solid: AL or CU	–	–	–	–	–	–
	TO	TO	TO	TO	TO	TO	TO
STRANDED							
	ACSR Standard Round	477.0 26/7, 24/7, 18/1, 397.5 30/7, 26/7	6 6/1	4 7/1, 6/1, 5 6/1	2 6/1, 3 6/1	2 6/1, 7/1	80.0 8/1, 1 6/1
	AAAC 6201-5003	465.4, 466.3, 503.6, 559.5, 599.6	6	4, 5	3	2	1
	AAC Standard Round	477.0, 500.0, 550.0, 556.5	6	3, 4	2	1	1/0
	COPPER Standard Round	500.0, 550.0	5,6	4	2	1	1/0
	AAC Compressed or Compacted	–	6	3, 4	2	1	1/0
	ACSR Compressed or Compacted	556.5, 636.0 18/1	6 6/1	4 7/1, 6/1	2 6/1, 7/1	1 6/1	1/0 6/1
	AWAC, ACAR	503.6 15/4, 12/7	–	4 6/1	4 4/3, 5/2, 3 5/2, 6/1	4 2/5, 3/4, 3 4/3, 2 5/2, 6/1	3 3/4, 2 4/3, 1 5/2, 6/1
	ALUMOWELD COPPERWELD	19 No. 6, 37 No. 9	8A, 8C, 3 No. 12	8D, 7D, 7A, 6A, 6C, 3 No. 9, 3 No. 10, 7 No. 12	6D, 5D, 5A, 4A, 3 No. 8, 7 No. 11	4N, 3A, 2G, 2F, 3 No. 7, 7 No. 10	4D, 4P, 2K, 2A, 2J, 1G, 1F, 3 No. 6, 7 No. 9
	Galvanized Steel	–	3/16"	1/4", 7/32"	9/32"	11/32"	3/8"
	Solid: AL or CU	–	5, 6	4, 3	2, 1	1/0	2/0
	Use TAP Number	**I-602031-3***	**2-602031-2***	**2-602031-1***	**2-602031-0***	**1-602031-9***	**I-602031-8***

*UL Listed

STRANDED	Large Wire Groove Code						
	ACSR Standard Round	556.5 26/7, 24/7, 18/1, 477.0 30/7, 26/7	556.5 26/7, 24/7, 18/1, 477.0 30/7, 26/7	556.5 26/7, 24/7, 18/1, 477.0 30/7, 26/7	556.5 26/7, 24/7, 18/1, 477.0 30/7, 26/7	556.5 26/7, 24/7, 18/1, 477.0 30/7, 26/7	556.5 26/7, 24/7, 18/1, 477.0 30/7, 26/7
	AAAC 6201-5003	559.5, 587.2, 599.6, 652.4, 652.8	559.5, 587.2, 599.6, 652.4, 652.8	559.5, 587.2, 599.6, 652.4, 652.8	559.5, 587.2, 599.6, 652.4, 652.8	559.5, 587.2, 599.6, 652.4, 652.8	559.5, 587.2, 599.6, 652.4, 652.8
	AAC Standard Round	556.5, 600.0, 636.0	556.5, 600.0, 636.0	556.5, 600.0, 636.0	556.5, 600.0, 636.0	556.5, 600.0, 636.0	556.5, 600.0, 636.0
	COPPER Standard Round	550.0, 600.0	550.0, 600.0	550.0, 600.0	550.0, 600.0	550.0, 600.0	550.0, 600.0
	AAC Compressed or Compacted	–	–	–	–	–	–
	ACSR Compressed or Compacted	636.0 18/1	636.0 18/1	636.0 18/1	636.0 18/1	636.0 18/1	636.0 18/1
	AWAC, ACAR	653.1 15/4, 12/7, 568.3 15/4	653.1 15/4, 12/7, 568.3 15/4	653.1 15/4, 12/7, 568.3 15/4	653.1 15/4, 12/7, 568.3 15/4	653.1 15/4, 12/7, 568.3 15/4	653.1 15/4, 12/7, 568.3 15/4
	ALUMOWELD COPPERWELD	19 No. 5, 37 No. 8	19 No. 5, 37 No. 8	19 No. 5, 37 No. 8	19 No. 5, 37 No. 8	19 No. 5, 37 No. 8	19 No. 5, 37 No. 8
	Galvanized Steel	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"
	Solid: AL or CU	–	–	–	–	–	–
	TO	TO	TO	TO	TO	TO	TO
STRANDED							
	ACSR Standard Round	1/0 6/1	110.8, 101.8 12/7, 2/0 6/1	4/0 6/1, 3/0 6/1	266.8 30/7, 26/7, 24/7, 6/7, 18/1	336.4, 397.5 30/7, 26/7, 24/7, 18/1	477.0, 556.5 26/7, 24/7, 18/1, 477.0 30/7
	AAAC 6201-5003	1/0	2/0	4/0, 3/0	281.4, 307.1, 312.8	355.1, 394.5, 419.6, 465.4, 466.3	652.8, 652.4, 599.6, 503.6, 587.2, 559.2
	AAC Standard Round	2/0	3/0	4/0	250.0, 266.8, 300.0	336.4, 350.0, 397.5, 400.0, 450.0, 477.0	636.0, 600.0, 500.0, 550.0, 556.5
	COPPER Standard Round	2/0	3/0	4/0	250.0, 300.0	350.0, 400.0, 450.0	500.0, 600.0, 550.0
	AAC Compressed or Compacted	–	3/0	4/0, 250.0	266.8, 300.0, 336.4, 350.0	397.5, 477.0, 500.0	–
	ACSR Compressed or Compacted	2/0 6/1	3/0 6/1	266.8 18/1, 4/0 6/1	366.4 18/1	556.5, 397.5, 477.0 18/1	636.0 18/1
	AWAC, ACAR	1/0 5/2, 6/1, 1 3/4, 4/3, 2 2/5, 3/4, 3 2/5	3/0 6/1, 2/0 5/2, 6/1, 1/0 3/4, 4/3, 1 2/5	4/0 6/1, 3/0 5/2, 4/3, 2/0 3/4, 4/3, 1/0 2/5	4/0 15/4	336.4 15/4, 16/3, 18/1, 343.6 15/4, 355.0 15/4, 12/7	503.6, 653.1 15/4, 12/7, 568.3 15/4
	ALUMOWELD COPPERWELD	1/0G, 1/0F, 1K, 1J, 2N, 7 No.7, 7 No.8, 3 No. 5	3/0F, 2/0J, 2/0G, 1/0K, 1/0J, 1N, 2P, 2/0F, 7 No. 6	19 No. 9, 19 No. 10, 7 No. 5, 4/0F, 2/0K	19 No. 8, 7 No. 4, 4/0E, 4/0G	19 No. 7, 37 No. 9, 37 No. 10	19 No. 6, 19 No. 5, 37 No. 8
	Galvanized Steel	–	7/16"	9/16", 1/2"	5/8"	3/4"	7/8"
	Solid: AL or CU	3/0	4/0	300.0, 250.0	400.0, 350.0	450.0, 500.0	–
	Use TAP Number	**I-602031-7***	**I-602031-6***	**1-602031-5***	**1-602031-4***	**1-602031-3***	**1-602031-2***

*UL Listed

STRANDED	Large Wire Groove Code						
	ACSR Standard Round	605.0 54/7, 24/7, 653.9 18/3, 556.5 30/7	605.0 54/7, 24/7, 653.9 18/3, 556.5 30/7	605.0 54/7, 24/7, 653.9 18/3, 556.5 30/7	605.0 54/7, 24/7, 653.9 18/3, 556.5 30/7	605.0 54/7, 24/7, 653.9 18/3, 556.5 30/7	605.0 54/7, 24/7, 653.9 18/3, 556.5 30/7
	AAAC 6201-5003	–	–	–	–	–	–
	AAC Standard Round	–	–	–	–	–	–
	COPPER Standard Round	–	–	–	–	–	–
	AAC Compressed or Compacted	–	–	–	–	–	–
	ACSR Compressed or Compacted	–	–	–	–	–	–
	AWAC, ACAR	–	–	–	–	–	–
	ALUMOWELD COPPERWELD	–	–	–	–	–	–
	Galvanized Steel	–	–	–	–	–	–
	Solid: AL or CU	–	–	–	–	–	–
	TO	TO	TO	TO	TO	TO	TO
STRANDED							
	ACSR Standard Round	4 7/1, 6/1, 5 6/1	2 7/1, 6/1, 3 6/1	1/0 6/1, 1 6/1, 80.0 8/1	2/0 6/1	3/0 6/1, 101.8, 110.8, 134.6 12/7	4/0 6/1, 159.0 12/7
	AAAC 6201-5003	4, 5	2, 3	1/0, 1	2/0	3/0	4/0
	AAC Standard Round	3, 4, 5	2	1/0	2/0	3/0	250.0, 4/0
	COPPER Standard Round	4, 5	2, 3	1/0	2/0	3/0	250.0, 4/0
	AAC Compressed or Compacted	3, 4	1, 2	2/0, 1/0	3/0	250.0, 4/0	266.8, 300.0
	ACSR Compressed or Compacted	4 7/1, 6/1	2 7/1, 6/1, 1 6/1	1/0 6/1	2/0 6/1	4/0 6/1, 3/0 6/1	266.8 18/1
	AWAC, ACAR	4 6/1	2 6/1, 3 5/2, 4/3, 6/1, 4 4/3, 3/4	1/0 6/1, 1 5/2, 4/3, 6/1, 2 4/3, 3/4, 3 3/4, 2/5, 4 2/5	2/0 6/1, 1/0 5/2, 4/3, 1 3/4 , 2 2/5	2/0 5/2, 4/3, 3/0 5/2, 6/1, 1/0 3/4, 1 2/5	4/0 15/4, 6/1, 3/0 4/3, 2/0 3/4, 1/0 2/5
	ALUMOWELD COPPERWELD	5A, 6A, 6C, 7A, 7D, 8D, 7 No. 12, 3 No. 10, 3 No. 9	2F, 3A, 4A, 5D, 6D, 3 No. 8, 3 No. 7, 7 No. 10, 7 No. 11	1J, 1G, 1F, 2K, 2J, 2A, 4D, 4P, 1/0F, 3 No. 6, 3 No. 5, 7 No. 8, 7 No. 9	2/0F, 1/0G, 1/0J, 1K, 2N, 7 No. 7	3/0F, 2/0J, 2/0G, 1/0K, 1N, 2P, 7 No. 6, 19 No.10	4/0G, 4/0F, 2/0K, 19 No. 9, 7 No. 5
	Galvanized Steel	1/4", 7/32"	5/16", 9/32"	3/8", 11/32"	7/16"	1/2"	9/16"
	Solid: AL or CU	2, 3, 4	1/0, 1	2/0	3/0	250.0, 266.8, 4/0	300.0, 336.4
Use TAP Number		**I-60121-4***	**I-602121-3***	**I-602121-2***	**I-602121-1***	**I-602121-0***	**602121-9***

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STRANDED	Large Wire Groove Code						
	ACSR Standard Round	605.0 54/7, 24/7, 653.9 18/3, 556.5 30/7	605.0 54/7, 24/7, 653.9 18/3, 556.5 30/7	605.0 54/7, 24/7, 653.9 18/3, 556.5 30/7	605.0 54/7, 24/7, 653.9 18/3, 556.5 30/7	605.0 54/7, 24/7, 653.9 18/3, 556.5 30/7	605.0 54/7, 24/7, 653.9 18/3, 556.5 30/7
	AAAC 6201-5003	–	–	–	–	–	–
	AAC Standard Round	–	–	–	–	–	–
	COPPER Standard Round	–	–	–	–	–	–
	AAC Compressed or Compacted	–	–	–	–	–	–
	ACSR Compressed or Compacted	–	–	–	–	–	–
	AWAC, ACAR	–	–	–	–	–	–
	ALUMOWELD COPPERWELD	–	–	–	–	–	–
	Galvanized Steel	–	–	–	–	–	–
	Solid: AL or CU	–	–	–	–	–	–
	TO	TO	TO	TO	TO	TO	TO
STRANDED							
	ACSR Standard Round	266.8 30/7, 26/7, 24/7, 18/1, 6/7, 300.0 30/7, 26/7, 24/7, 18/1, 176.9, 190.8 12/7	336.4 26/7, 24/7, 18/1, 211.3 12/7, 203.2 16/19	397.5 18/1, 336.4 30/7	477.0 30/7, 26/7, 24/7, 18/1, 397.5 30/7	556.5 18/1, 500.0 30/7	636.0 54/7, 30/19, 30/7, 26/7, 24/7, 18/1, 605.0, 653.9 18/3, 556.5 30/7
	AAAC 6201-5003	281.4, 307.1, 312.8	355.1, 394.5	419.6	503.6, 559.5, 587.2, 599.6	–	704.6, 740.8, 746.1
	AAC Standard Round	266.8, 300.0	336.4, 350.0	–	500.0, 550.0, 556.5	600.0	700.0, 715.5, 750.0
	COPPER Standard Round	300.0	350.0, 400.0	–	500.0, 550.0	600.0	700.0, 750.0
	AAC Compressed or Compacted	336.4, 350.0	397.5, 477.0	500.0	636.0	–	874.5
	ACSR Compressed or Compacted	336.4, 18/1	397.518/1	477.018/1	556.5, 636.0 18/1	–	874.5 36/1
	AWAC, ACAR	–	355.0 15/4, 12/7, 343.6 15/4, 336.4 15/4, 16/3, 18/1	–	568.3 15/4, 503.6 15/4, 12/7	–	739.8 30/7, 33/4, 24/13, 18/19
	ALUMOWELD COPPERWELD	4/0E, 19 No. 8, 7 No. 4	19 No. 7, 37 No. 10	–	19 No. 6, 37 No. 9	37 No. 8	–
	Galvanized Steel	5/8"	–	3/4"	7/8"	–	1"
	Solid: AL or CU	350.0, 397.5, 400.0	450.0, 477.0, 500.0	–	–	–	–
Use TAP Number		**602121-8***	**602121-7***	**602121-6***	**602121-5***	**602121-4***	**602121-3***

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STRANDED	Large Wire Groove Code						
	ACSR Standard Round	605.0 54/7, 24/7, 653.9 18/3, 556.5 30/7	605.0 54/7, 24/7, 653.9 18/3, 556.5 30/7	605.0 54/7, 24/7, 653.9 18/3, 556.5 30/7	636.0 30/19, 30/7, 26/7, 24/7, 666.6 54/7, 26/7, 24/7, 715.5 45/7, 605.0 30/19, 30/7	636.0 30/19, 30/7, 26/7, 24/7, 666.6 54/7, 26/7, 24/7, 715.5 45/7, 605.0 30/19, 30/7	636.0 30/19, 30/7, 26/7, 24/7, 666.6 54/7, 26/7, 24/7, 715.5 45/7, 605.0 30/19, 30/7
	AAAC 6201-5003	–	–	–	740.8, 746.1	740.8, 746.1	740.8, 746.1
	AAC Standard Round	–	–	–	715.5, 750.0	715.5, 750.0	715.5, 750.0
	COPPER Standard Round	–	–	–	750.0	750.0	750.0
	AAC Compressed or Compacted	–	–	–	874.5	874.5	874.5
	ACSR Compressed or Compacted	–	–	–	874.5 36/1	874.5 36/1	874.5 36/1
	AWAC, ACAR	–	–	–	739.8 33/4, 30/7, 24/13, 18/19	739.8 33/4, 30/7, 24/13, 18/19	739.8 33/4, 30/7, 24/13, 18/19
	ALUMOWELD COPPERWELD	–	–	–	37 No. 7	37 No. 7	37 No. 7
	Galvanized Steel	–	–	–	1″	1″	1″
	Solid: AL or CU	–	–	–	–	–	–
	TO						
STRANDED							
	ACSR Standard Round	715.5 54/7, 45/7, 26/7, 24/7, 666.6 54/7, 26/7, 24/7, 795.0 36/1	795.0 54/7, 45/7, 30/19, 30/7, 26/7, 24/7, 874.5 45/7, 54/7, 715.5 30/19, 30/7	954.0 36/1, 900.0 45/7	6 6/1, 5 6/1	4 7/1, 6/1, 3 6/1	2 7/1, 6/1, 1 6/1, 80.0 8/1
	AAAC 6201-5003	833.6	927.2, 932.6	–	5, 6	3, 4	1, 2
	AAC Standard Round	795.0, 800.0	874.5, 900.0	954.0, 1000.0	4, 5, 6	2, 3	1/0, 1
	COPPER Standard Round	800.0	850.0, 900.0	1000.0	4, 5, 6	2, 3	1/0, 1
	AAC Compressed or Compacted	954.0	–	–	3, 4	1, 2	2/0, 1/0
	ACSR Compressed or Compacted	954.0 36/1	–	–	4 7/1, 6/1	2 7/1, 6/1	1/0, 1 6/1
	AWAC, ACAR	853.7 30/7, 24/13, 18/19, 862.7 18/19, 840.2 24/13, 819.2 30/7	927.2 30/7, 24/13, 18/19	1012.2 24/13, 983.1 30/7	4 6/1	2 6/1, 3 5/2, 6/1, 4 4/3, 5/2, 3/4	1/0 6/1, 1 5/2, 6/1, 2 4/3, 5/2, 3/4, 3 4/3, 2/5, 3/4, 4 2/5
	ALUMOWELD COPPERWELD	37 No. 7	37 No. 6	–	6A, 6C, 7A, 7D, 8A, 8D, 3 No. 10, 7 No. 12	2F, 4A, 5A, 5D, 6A, 3 No. 7, 3 No. 8, 3 No. 9, 7 No. 10, 7 No. 11	1/0F, 1F, 1G, 2A, 2G, 2J, 2K, 3A, 4D, 4N, 4P, 3 No. 6, 7 No. 8, 7 No. 9
	Galvanized Steel	–	–	–	1/4″, 7/32″, 3/16″	9/32″	3/8″, 11/32″, 5/16″
	Solid: AL or CU	–	–	–	3, 4,	1, 2	2/0, 1/0
	Use TAP Number	**602121-2***	**602121-1***	**602121***	**I-602121-4***	**I-602121-3***	**1-602121-2***

*UL Listed

STRANDED	Large Wire Groove Code						
	ACSR Standard Round	636.0 30/19, 30/7, 26/7, 24/7, 666.6 54/7, 26/7, 24/7, 715.5 45/7, 605.0 30/19, 30/7	636.0 30/19, 30/7, 26/7, 24/7, 666.6 54/7, 26/7, 24/7, 715.5 45/7, 605.0 30/19, 30/7	636.0 30/19, 30/7, 26/7, 24/7, 666.6 54/7, 26/7, 24/7, 715.5 45/7, 605.0 30/19, 30/7	636.0 30/19, 30/7, 26/7, 24/7, 666.6 54/7, 26/7, 24/7, 715.5 45/7, 605.0 30/19, 30/7	636.0 30/19, 30/7, 26/7, 24/7, 666.6 54/7, 26/7, 24/7, 715.5 45/7, 605.0 30/19, 30/7	636.0 30/19, 30/7, 26/7, 24/7, 666.6 54/7, 26/7, 24/7, 715.5 45/7, 605.0 30/19, 30/7
	AAAC 6201-5003	740.8, 746.1	740.8, 746.1	740.8, 746.1	740.8, 746.1	740.8, 746.1	740.8, 746.1
	AAC Standard Round	715.5, 750.0	715.5, 750.0	715.5, 750.0	715.5, 750.0	715.5, 750.0	715.5, 750.0
	COPPER Standard Round	750.0	750.0	750.0	750.0	750.0	750.0
	AAC Compressed or Compacted	874.5	874.5	874.5	874.5	874.5	874.5
	ACSR Compressed or Compacted	874.5 36/1	874.5 36/1	874.5 36/1	874.5 36/1	874.5 36/1	874.5 36/1
	AWAC, ACAR	739.8 33/4, 30/7, 24/13, 18/19	739.8 33/4, 30/7, 24/13, 18/19	739.8 33/4, 30/7, 24/13, 18/19	739.8 33/4, 30/7, 24/13, 18/19	739.8 33/4, 30/7, 24/13, 18/19	739.8 33/4, 30/7, 24/13, 18/19
	ALUMOWELD COPPERWELD	37 No. 7	37 No. 7	37 No. 7	37 No. 7	37 No. 7	37 No. 7
	Galvanized Steel	1″	1″	1″	1″	1″	1″
	Solid: AL or CU	–	–	–	–	–	–
	TO						
STRANDED							
	ACSR Standard Round	1/0 6/1	3/0 6/1, 2/0 6/1, 101.8, 110.8 12/7	4/0 6/1, 134.6 12/7	266.8 26/7, 24/7, 18/1, 6/7, 176.9, 159.0, 190.8 12/7	336.4 26/7, 24/7, 18/1, 266.8 30/7, 211.3 12/7, 300.0 30/7, 26/7, 24/7, 18/1	97.52 6/7, 24/7, 18/1, 336.4 30/7, 203.2 16/19
	AAAC 6201-5003	1/0	2/0, 3/0	4/0	281.4, 307.1, 312.8	355.1, 394.5	419.6, 465.4, 466.3
	AAC Standard Round	2/0	3/0	4/0	250.0, 266.8, 300.0	336.4, 350.0	397.5, 400.0, 450.0
	COPPER Standard Round	2/0	3/0	4/0	250.0, 300.0	350.0	400.0, 450.0
	AAC Compressed or Compacted	3/0	4/0	250.0, 266.8	300.0, 336.4, 350.0	397.5, 477.0	500.0, 556.5
	ACSR Compressed or Compacted	2/0 6/1	3/0 6/1	266.8 18/1, 4/0 6/1	336.4 18/1	397.5 18/1	477.0 18/1
	AWAC, ACAR	2/0 6/1, 1/0 5/2, 1 3/4, 4/3, 2 2/5	3/0 6/1, 2/0 5/2, 1/0 4/3, 3/4, 12/5	4/0 6/1, 3/0 4/3, 5/2, 2/0 4/3, 3/4, 1/0 2/5	4/0 15/4	355.0 15/4, 12/7, 343.6 15/4, 336.4 16/3, 18/1	336.4 15/4
	ALUMOWELD COPPERWELD	2/0 F, 1/0 G, 1/0 J, 1J, 1K, 2N, 7 No. 7, 3 No. 5	3/0F, 2/0G, 2/0J, 1/0K, 1N, 2P, 7 No. 6	4/0F, 2/0K, 19 No. 10, 7 No. 5	4/0 E, 4/0 G, 19 N0. 9, 7 No. 4	19 No. 8	37 No. 10, 19 No. 7
	Galvanized Steel	7/16″	–	9/16″, 1/2″	5/8″	–	3/4″
	Solid: AL or CU	3/0	4/0	250.0, 266.8 300.0	336.4, 350.0, 397.5, 400.0	450.0, 477.0, 500.0	–
	Use TAP Number	**1-602121-1***	**1-602121-0***	**602121-9***	**602121-8***	**602121-7***	**602121-6***

*UL Listed

STRANDED	Large Wire Groove Code						
	ACSR Standard Round	636.0 30/19, 30/7, 26/7, 24/7, 666.6 54/7, 26/7, 24/7, 715.5 45/7, 605.0 30/19, 30/7	636.0 30/19, 30/7, 26/7, 24/7, 666.6 54/7, 26/7, 24/7, 715.5 45/7, 605.0 30/19, 30/7	636.0 30/19, 30/7, 26/7, 24/7, 666.6 54/7, 26/7, 24/7, 715.5 45/7, 605.0 30/19, 30/7	636.0 30/19, 30/7, 26/7, 24/7, 666.6 54/7, 26/7, 24/7, 715.5 45/7, 605.0 30/19, 30/7	636.0 30/19, 30/7, 26/7, 24/7, 666.6 54/7, 26/7, 24/7, 715.5 45/7, 605.0 30/19, 30/7	636.0 30/19, 30/7, 26/7, 24/7, 666.6 54/7, 26/7, 24/7, 715.5 45/7, 605.0 30/19, 30/7
	AAAC 6201-5003	740.8, 746.1	740.8, 746.1	740.8, 746.1	740.8, 746.1	740.8, 746.1	740.8, 746.1
	AAC Standard Round	715.5, 750.0	715.5, 750.0	715.5, 750.0	715.5, 750.0	715.5, 750.0	715.5, 750.0
	COPPER Standard Round	750.0	750.0	750.0	750.0	750.0	750.0
	AAC Compressed or Compacted	874.5	874.5	874.5	874.5	874.5	874.5
	ACSR Compressed or Compacted	874.5 36/1	874.5 36/1	874.5 36/1	874.5 36/1	874.5 36/1	874.5 36/1
	AWAC, ACAR	739.8 33/4, 30/7, 24/13, 18/19	739.8 33/4, 30/7, 24/13, 18/19	739.8 33/4, 30/7, 24/13, 18/19	739.8 33/4, 30/7, 24/13, 18/19	739.8 33/4, 30/7, 24/13, 18/19	739.8 33/4, 30/7, 24/13, 18/19
	ALUMOWELD COPPERWELD	37 No. 7	37 No. 7	37 No. 7	37 No. 7	37 No. 7	37 No. 7
	Galvanized Steel	1″	1″	1″	1″	1″	1″
	Solid: AL or CU	–	–	–	–	–	–
	TO		TO	TO	TO	TO	TO	TO
STRANDED							
	ACSR Standard Round	477.0 26/7, 24/7, 18/1, 397.5 30/7	556.5 26/7, 24/7, 18/1, 477.0, 500.0 30/7	636.0 54/7, 26/7, 24/7, 36/1, 18/1, 605.0 54/7, 30/7, 26/7, 24/7, 556.5 30/7	666.6 54/7, 26/7, 24/7, 636.0 30/19, 30/7, 715.5 45/7	795.0 54/7, 45/7, 26/7, 24/7, 36/1, 715.5 54/7, 26/7, 24/7, 30/19, 30/7	795.0 30/7, 30/19, 954.0 36/1, 900.0 45/7, 874.5 54/7, 45/7
	AAAC 6201-5003	503.6	559.5, 587.2, 599.6	652.4, 652.8, 704.6, 740.8	–	833.6	927.2, 932.6
	AAC Standard Round	477.0, 500.0	550.0, 556.5, 600.0	636.0, 650.0, 715.5, 700.0	750.0	795.0, 800.0 874.5, 900.0	954.0, 1000.0
	COPPER Standard Round	500.0	550.0, 600.0	650.0, 700.0	750.0	800.0 850.0, 900.0	1000.0
	AAC Compressed or Compacted	636.0	–	795.0, 874.5	–	954.0	–
	ACSR Compressed or Compacted	556.5 18/1	636.0 18/1	874.5, 795.0 36/1	–	954.0 36/1	–
	AWAC, ACAR	503.6 15/4, 12/7	653.1 15/4, 12/7, 568.3 15/4	739.8 30/7, 33/4, 24/3, 18/9	–	853.7 30/7, 24/13, 18/19, 862.7 18/19, 840.2 24/13, 819.2 30/7	1012.2 24/13, 983.1 30/7, 927.2 30/7 24/13, 18/19
	ALUMOWELD COPPERWELD	19 No. 6, 37 No. 9	37 No. 8 19 No. 5	–	37 No. 7	–	37 No. 6
	Galvanized Steel	–	7/8″	–	1″	–	–
	Solid: AL or CU	–	–	–	–	–	–
	Use TAP Number	602121-5*	602121-4*	602121-3*	602121-2*	602121-1*	602121*

*UL Listed

STRANDED	Large Wire Groove Code						
	ACSR Standard Round	795.0 54/7, 45/7, 26/7, 24/7, 36/1, 715.5 54/7, 30/19, 30/7, 26/7, 24/7	795.0 54/7, 45/7, 26/7, 24/7, 36/1, 715.5 54/7, 30/19, 30/7, 26/7, 24/7	795.0 54/7, 45/7, 26/7, 24/7, 36/1, 715.5 54/7, 30/19, 30/7, 26/7, 24/7	795.0 54/7, 45/7, 26/7, 24/7, 36/1, 715.5 54/7, 30/19, 30/7, 26/7, 24/7	795.0 54/7, 45/7, 26/7, 24/7, 36/1, 715.5 54/7, 30/19, 30/7, 26/7, 24/7	795.0 54/7, 45/7, 26/7, 24/7, 36/1, 715.5 54/7, 30/19, 30/7, 26/7, 24/7
	AAAC 6201-5003	833.6, 927.2, 932.6	833.6, 927.2, 932.6	833.6, 927.2, 932.6	833.6, 927.2, 932.6	833.6, 927.2, 932.6	833.6, 927.2, 932.6
	AAC Standard Round	795.0, 800.0 874.5, 900.0	795.0, 800.0 874.5, 900.0	795.0, 800.0 874.5, 900.0	795.0, 800.0 874.5, 900.0	795.0, 800.0 874.5, 900.0	795.0, 800.0 874.5, 900.0
	COPPER Standard Round	800.0 850.0, 900.0	800.0 850.0, 900.0	800.0 850.0, 900.0	800.0 850.0, 900.0	800.0 850.0, 900.0	800.0 850.0, 900.0
	AAC Compressed or Compacted	954.0	954.0	954.0	954.0	954.0	954.0
	ACSR Compressed or Compacted	954.0 36/1	954.0 36/1	954.0 36/1	954.0 36/1	954.0 36/1	954.0 36/1
	AWAC, ACAR	853.7, 927.2 30/7, 24/13, 18/19, 862.7 18/19, 840.2 24/13, 819.2 30/7	853.7, 927.2 30/7, 24/13, 18/19, 862.7 18/19, 840.2 24/13, 819.2 30/7	853.7, 927.2 30/7, 24/13, 18/19, 862.7 18/19, 840.2 24/13, 819.2 30/7	853.7, 927.2 30/7, 24/13, 18/19, 862.7 18/19, 840.2 24/13, 819.2 30/7	853.7, 927.2 30/7, 24/13, 18/19, 862.7 18/19, 840.2 24/13, 819.2 30/7	853.7, 927.2 30/7, 24/13, 18/19, 862.7 18/19, 840.2 24/13, 819.2 30/7
	ALUMOWELD COPPERWELD	–	–	–	–	–	–
	Galvanized Steel	–	–	–	–	–	–
	Solid: AL or CU	–	–	–	–	–	–
	TO	TO	TO	TO	TO	TO	TO
STRANDED							
	ACSR Standard Round	6 6/1	4 7/1, 6/1, 5 6/1	2 7/1, 6/1, 3 6/1	1/0 6/1, 1 6/1, 80.0 8/1	2/0 6/1	3/0 6/1, 101.8, 110.8 12/7
	AAAC 6201-5003	6	4, 5	2, 3	1/0, 1	2/0	3/0
	AAC Standard Round	6	3, 4, 5	1, 2	1/0	2/0	3/0
	COPPER Standard Round	6	3, 4, 5	1, 2	1/0	2/0	3/0
	AAC Compressed or Compacted	6	3, 4	2	2/0, 1/0	3/0	4/0
	ACSR Compressed or Compacted	6 6/1	4 7/1, 6/1	1 6/1, 2 7/1, 6/1	1/0 6/1	2/0 6/1	3/0 6/1
	AWAC, ACAR	–	4 5/2, 6/1	2 5/2, 6/1, 3 4/3, 5/2, 6/1, 4 3/4, 4/3	1/0 6/1, 1 5/2, 6/1, 2 4/3, 3/4, 3 2/5, 3/4, 4 2/5	2/0 6/1, 1/0 5/2, 4/3, 1 3/4, 4/3, 2 2/5	3/0 6/1, 2/0 5/2, 1/0 3/4, 1 2/5
	ALUMOWELD COPPERWELD	8A, 8C 3 No. 12	5A, 6A, 6C, 7A, 7D, 8D, 7 No. 12, 3 No. 9, 3 No. 10	2F, 2G, 3A, 4A, 4N, 5D,6D, 3 No. 7, 3 No. 8, 7 No. 10, 7 No. 11	1/0 F, 1F, 1G, 1J, 2A, 2J, 2K, 4D, 4P, 3 No. 5, 3 No. 6, 7 No. 8, 7 No. 9	2/0F, 1/0G, 1/0F, 1K, 2N, 7 No. 7	3/0F, 2/0G, 2/0J, 1/0K, 1N, 2P, 7 No. 6
	Galvanized Steel	3/16″	1/4″, 7/32″	5/16″, 9/32″	3/8″, 11/32″	7/16″	1/2″
	Solid: AL or CU	5, 6	2, 3, 4	1/0, 1	2/0	3/0	250.0, 4/0
	Use TAP Number	1-602121-4*	1-602121-3*	1-602121-2*	1-602121-1*	1-602121-0*	602121-9*

*UL Listed

	Large Wire Groove Code						
STRANDED	ACSR Standard Round	795.0 54/7, 45/7, 26/7, 24/7, 36/1, 715.5 54/7, 30/19, 30/7, 26/7, 24/7	795.0 54/7, 45/7, 26/7, 24/7, 36/1, 715.5 54/7, 30/19, 30/7, 26/7, 24/7	795.0 54/7, 45/7, 26/7, 24/7, 36/1, 715.5 54/7, 30/19, 30/7, 26/7, 24/7	795.0 54/7, 45/7, 26/7, 24/7, 36/1, 715.5 54/7, 30/19, 30/7, 26/7, 24/7	795.0 54/7, 45/7, 26/7, 24/7, 36/1, 715.5 54/7, 30/19, 30/7, 26/7, 24/7	795.0 54/7, 45/7, 26/7, 24/7, 36/1, 715.5 54/7, 30/19, 30/7, 26/7, 24/7
	AAAC 6201-5003	833.6, 927.2, 932.6	833.6, 927.2, 932.6	833.6, 927.2, 932.6	833.6, 927.2, 932.6	833.6, 927.2, 932.6	833.6, 927.2, 932.6
	AAC Standard Round	795.0, 800.0 874.5, 900.0	795.0, 800.0 874.5, 900.0	795.0, 800.0 874.5, 900.0	795.0, 800.0 874.5, 900.0	795.0, 800.0 874.5, 900.0	795.0, 800.0 874.5, 900.0
	COPPER Standard Round	800.0 850.0, 900.0	800.0 850.0, 900.0	800.0 850.0, 900.0	800.0 850.0, 900.0	800.0 850.0, 900.0	800.0 850.0, 900.0
	AAC Compressed or Compacted	954.0	954.0	954.0	954.0	954.0	954.0
	ACSR Compressed or Compacted	954.0 36/1	954.0 36/1	954.0 36/1	954.0 36/1	954.0 36/1	954.0 36/1
	AWAC, ACAR	853.7, 927.2 30/7, 24/13, 18/19, 862.7 18/19, 840.2 24/13, 819.2 30/7	853.7, 927.2 30/7, 24/13, 18/19, 862.7 18/19, 840.2 24/13, 819.2 30/7	853.7, 927.2 30/7, 24/13, 18/19, 862.7 18/19, 840.2 24/13, 819.2 30/7	853.7, 927.2 30/7, 24/13, 18/19, 862.7 18/19, 840.2 24/13, 819.2 30/7	853.7, 927.2 30/7, 24/13, 18/19, 862.7 18/19, 840.2 24/13, 819.2 30/7	853.7, 927.2 30/7, 24/13, 18/19, 862.7 18/19, 840.2 24/13, 819.2 30/7
	ALUMOWELD COPPERWELD	–	–	–	–	–	–
	Galvanized Steel	–	–	–	–	–	–
	Solid: AL or CU	–	–	–	–	–	–
	TO		TO	TO	TO	TO	TO	TO
STRANDED	ACSR Standard Round	4/0 6/1, 134.6 12/7	266.8 26/7, 24/7, 18/1, 6/7, 300.0 18/1, 159.0, 190.8, 176.9 12/7	336.4 26/7, 24/7, 18/1, 300.0 30/7, 26/7, 24/7, 266.8 30/7, 211.3 12/7, 203.2 16/19	397.5 26/7, 24/7, 18/1, 336.4 30/7	477.0 26/7, 24/7, 18/1, 397.5 30/7	556.5 26/7, 18/1, 24/7 477.0, 500.0 30/7
	AAAC 6201-5003	4/0	281.4, 307.1, 312.8	355.1, 394.5	419.6, 465.4, 466.3	503.6, 559.5, 599.6	587.2, 652.4,652.8
	AAC Standard Round	4/0	250.0, 266.8, 300.0	336.4, 350.0	397.5, 400.0, 450.0, 477.0	500.0, 550.0	556.5, 600.0
	COPPER Standard Round	4/0	250.0, 300.0	350.0	400.0, 450.0	500.0, 550.0	600.0
	AAC Compressed or Compacted	250.0, 266.8	300.0, 336.4, 350.0	397.5	477.0, 500.0 556.5	636.0	–
	ACSR Compressed or Compacted	266.8 18/1, 4/0 6/1	336/4 18/1	397.5 18/1	477.0, 556.6 18/1	–	636.018/1
	AWAC, ACAR	4/0 6/1, 3/0 4/3, 5/2, 2/0 4/3, 3/4, 1/0 2/5	4/0 15/4	355.0 15/4, 12/7 343.6 15/4, 336.4 16/3, 18/1	336.4 15/4	503.6 15/4, 12/7	653.1 15/4, 12/7, 568.3 15/4
	ALUMOWELD COPPERWELD	4/0F, 2/0K, 19 No. 10, 7 No. 5	19 No. 8, 19 No. 9, 7 No. 4, 4/0E, 4/0G	37 No. 10, 19 No. 7	37 No. 9	19 No. 6	37 No. 8 19 No. 5
	Galvanized Steel	9/16″	5/8″	–	3/4″	–	7/8″
	Solid: AL or CU	266.8, 300.0	336.4, 350.0, 397.5, 400.0	450.0, 477.0, 500.0	–	–	–
	Use TAP Number	**602121-8***	**602121-7***	**602121-6***	**602121-5***	**602121-4***	**602121-3***

*UL Listed

	Large Wire Groove Code						
STRANDED	ACSR Standard Round	795.0 54/7, 45/7, 26/7, 24/7, 36/1, 715.5 54/7, 30/19, 30/7, 26/7, 24/7	795.0 54/7, 45/7, 26/7, 24/7, 36/1, 715.5 54/7, 30/19, 30/7, 26/7, 24/7	795.0 54/7, 45/7, 26/7, 24/7, 36/1, 715.5 54/7, 30/19, 30/7, 26/7, 24/7	954.0 45/7, 36/1, 900.0 54/7, 45/7, 874.5 54/7, 795.0 30/7, 30/19	954.0 45/7, 36/1, 900.0 54/7, 45/7, 874.5 54/7, 795.0 30/7, 30/19	954.0 45/7, 36/1, 900.0 54/7, 45/7, 874.5 54/7, 795.0 30/7, 30/19
	AAAC 6201-5003	833.6, 927.2, 932.6	833.6, 927.2, 932.6	833.6, 927.2, 932.6	–	–	–
	AAC Standard Round	795.0, 800.0 874.5, 900.0	795.0, 800.0 874.5, 900.0	795.0, 800.0, 874.5, 900.0	954.0, 1000.0	954.0, 1000.0	954.0, 1000.0
	COPPER Standard Round	800.0 850.0, 900.0	800.0 850.0, 900.0	800.0 850.0, 900.0	1000.0	1000.0	1000.0
	AAC Compressed or Compacted	954.0	954.0	954.0	–	–	–
	ACSR Compressed or Compacted	954.0 36/1	954.0 36/1	954.0 36/1	–	–	–
	AWAC, ACAR	853.7, 927.2 30/7, 24/13, 18/19, 862.7 18/19, 840.2 24/13, 819.2 30/7	853.7, 927.2 30/7, 24/13, 18/19, 862.7 18/19, 840.2 24/13, 819.2 30/7	853.7, 927.2 30/7, 24/13, 18/19, 862.7 18/19, 840.2 24/13, 819.2 30/7	1024.5 30/7, 24/13, 18/19, 1012.2 24/13, 983.1 30/7	1024.5 30/7, 24/13, 18/19, 1012.2 24/13, 983.1 30/7	1024.5 30/7, 24/13, 18/19, 1012.2 24/13, 983.1 30/7
	ALUMOWELD COPPERWELD	–	–	–	37 No. 6	37 No. 6	37 No. 6
	Galvanized Steel	–	–	–	–	–	–
	Solid: AL or CU	–	–	–	–	–	–
	TO		TO	TO	TO	TO	TO	TO
STRANDED	ACSR Standard Round	636.0 54/7, 26/7, 24/7, 36/1, 18/1, 605.0 54/7, 26/7, 24/7, 30/19, 30/7, 556.5 30/7, 653.9 18/3	715.5 54/7, 45/7, 26/7, 24/7, 795.0 36/1, 666.6 54/7, 26/7, 24/7, 636.0 30/19, 30/7	795.0 54/7, 45/7, 26/7, 24/7, 715.5 30/19, 30/7	6 6/1	4 7/1, 6/1, 5 6/1	1 6/1, 2 7/1, 6/1
	AAAC 6201-5003	704.6	740.8, 746.1, 833.6	927.2	6	4, 5	1, 2, 3
	AAC Standard Round	636.0, 650.0, 700.0, 795.0	715.5, 750.0, 795.0	795.0, 800.0, 874.5, 900.0	5, 6	3, 4	1, 2
	COPPER Standard Round	650.0, 700.0	750.0	–	5, 6	3, 4	1, 2
	AAC Compressed or Compacted	795.0	874.5, 954.0	–	4, 6	2, 3	1/0, 1
	ACSR Compressed or Compacted	795.0 36/1	874.5, 954.0 36/1	–	6 6/1	4 7/1, 6/1	1 6/1, 2 7/1, 6/1
	AWAC, ACAR	–	819.2 30/7, 739.8 33/4, 30/7, 24/13, 18/9	853.7, 927.2 30/7 24/13, 18/19, 862.7 18/19, 840.2 23/13	–	4 5/2, 6/1	1 6/1, 2 4/3, 5/2, 6/1, 3 3/4, 4/3, 5/2, 6/1, 4 2/5, 3/4, 4/3
	ALUMOWELD COPPERWELD	–	37 No. 7	–	8A, 8C, 3 No. 12	5A, 6A, 6C, 7A, 7D, 8D, 3 No. 9, 3 No. 10, 7 No. 11, 7 No. 12	1F, 2F, 2G, 2J, 3A, 4A, 4D,4N, 5D, 6D, 3 No. 6, 3 No. 7, 3 No. 8, 7 No. 9, 7 No. 10
	Galvanized Steel	–	1″	–	3/16″	7/32″, 9/32″, 1/4″	3/8″, 5/16″, 9/32″, 11/32″
	Solid: AL or CU	–	–	–	4, 5, 6	2, 3	1/0, 1
	Use TAP Number	**602121-2***	**602121-1***	**602121***	**1-602180-6***	**1-602180-5***	**1-602180-4***

*UL Listed

STRANDED	Large Wire Groove Code						
	ACSR Standard Round	954.0 45/7, 36/1, 900.0 54/7, 45/7, 874.5 54/7, 795.0 30/7, 30/19	954.0 45/7, 36/1, 900.0 54/7, 45/7, 874.5 54/7, 795.0 30/7, 30/19	954.0 45/7, 36/1, 900.0 54/7, 45/7, 874.5 54/7, 795.0 30/7, 30/19	954.0 45/7, 36/1, 900.0 54/7, 45/7, 874.5 54/7, 795.0 30/7, 30/19	954.0 45/7, 36/1, 900.0 54/7, 45/7, 874.5 54/7, 795.0 30/7, 30/19	954.0 45/7, 36/1, 900.0 54/7, 45/7, 874.5 54/7, 795.0 30/7, 30/19
	AAAC 6201-5003	–	–	–	–	–	–
	AAC Standard Round	954.0, 1000.0	954.0, 1000.0	954.0, 1000.0	954.0, 1000.0	954.0, 1000.0	954.0, 1000.0
	COPPER Standard Round	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0
	AAC Compressed or Compacted	–	–	–	–	–	–
	ACSR Compressed or Compacted	–	–	–	–	–	–
	AWAC, ACAR	1024.5 30/7, 24/13, 18/19, 1012.2 24/13, 983.1 30/7	1024.5 30/7, 24/13, 18/19, 1012.2 24/13, 983.1 30/7	1024.5 30/7, 24/13, 18/19, 1012.2 24/13, 983.1 30/7	1024.5 30/7, 24/13, 18/19, 1012.2 24/13, 983.1 30/7	1024.5 30/7, 24/13, 18/19, 1012.2 24/13, 983.1 30/7	1024.5 30/7, 24/13, 18/19, 1012.2 24/13, 983.1 30/7
	ALUMOWELD COPPERWELD	37 No. 6	37 No. 6	37 No. 6	37 No. 6	37 No. 6	37 No. 6
	Galvanized Steel	–	–	–	–	–	–
	Solid: AL or CU	–	–	–	–	–	–
	TO						
STRANDED							
	ACSR Standard Round	2/0 6/1, 1/0 6/1, 80.0 8/1	3/0 6/1, 101.8 12/7	4/0 6/1, 110.8, 134.6 12/7	266.8 18/1, 159.0, 176.9 12/7	336.4 26/7, 24/7, 18/1, 300.0 30/7, 26/7, 24/7, 18/1, 266.8 30/7, 26/7, 24/7, 6/7, 211.3 12/7, 190.8 12/7	397.5 18/1, 336.4 30/7, 203.2 16/19
	AAAC 6201-5003	2/0, 1/0	3/0	4/0	281.4	307.1, 312.8, 355.1	394.5, 419.6
	AAC Standard Round	2/0, 1/0	3/0	4/0	250.0, 266.8	300.0, 336.4, 350.0	397.5, 400.0
	COPPER Standard Round	2/0, 1/0	3/0	4/0	250.0	300.0, 350.0	400.0
	AAC Compressed or Compacted	2/0	3/0	250.0, 4/0	266.8, 300.0, 336.4	350.0, 397.5	477.0, 500.0
	ACSR Compressed or Compacted	2/0, 1/0 6/1	3/0 6/1	4/0 6/1	266.8 18/1	336.4 18/1, 397.5 18/1	477.0 18/1
	AWAC, ACAR	1/0 6/1, 1 4/3, 5/2, 2 3/4, 3 2/5	2/0 6/1, 1/0 4/3, 5/2, 1 3/4, 2 2/5	3/0 6/1, 5/2, 2/0 4/3, 5/2, 1/0 3/4, 1 2/5	4/0 15/4, 6/1, 3/0 4/3, 2/0 3/4, 1/0 2/5	336.4 18/1, 343.6 15/4, 355.0 15/4, 12/7	336.4 16/3, 15/4
	ALUMOWELD COPPERWELD	4P, 1/0F, 1/0G, 1G, 1J, 1K, 2A, 2K, 2N, 3 No. 5, 7 No. 8	2/0F, 2/0G, 1/0J, 1N, 2P, 7 No. 7	3/0F, 2/0J, 2/0K, 1/0K, 7 No. 6, 19 No. 10	4/0F, 4/0G, 7 No. 5, 19 No. 9	4/0E, 7 No. 4, 19 No. 8	19 No. 7 37 No. 10
	Galvanized Steel	–	7/16″	1/2″	9/16″	5/8″	–
	Solid: AL or CU	3/0, 2/0	4/0	250.0, 266.8, 300.0	336.4, 350.0, 397.5	400.0, 450.0, 477.0	500.0
	Use TAP Number	**1-602180-3***	**1-602180-2***	**1-602180-1***	**1-602180-0***	**602180-9***	**602180-8***

*UL Listed

STRANDED	Large Wire Groove Code						
	ACSR Standard Round	954.0 45/7, 36/1, 900.0 54/7, 45/7, 874.5 54/7, 795.0 30/7, 30/19	954.0 45/7, 36/1, 900.0 54/7, 45/7, 874.5 54/7, 795.0 30/7, 30/19	954.0 45/7, 36/1, 900.0 54/7, 45/7, 874.5 54/7, 795.0 30/7, 30/19	954.0 45/7, 36/1, 900.0 54/7, 45/7, 874.5 54/7, 795.0 30/7, 30/19	954.0 45/7, 36/1, 900.0 54/7, 45/7, 874.5 54/7, 795.0 30/7, 30/19	954.0 45/7, 36/1, 900.0 54/7, 45/7, 874.5 54/7, 795.0 30/7, 30/19
	AAAC 6201-5003	–	–	–	–	–	–
	AAC Standard Round	954.0, 1000.0	954.0, 1000.0	954.0, 1000.0	954.0, 1000.0	954.0, 1000.0	954.0, 1000.0
	COPPER Standard Round	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0
	AAC Compressed or Compacted	–	–	–	–	–	–
	ACSR Compressed or Compacted	–	–	–	–	–	–
	AWAC, ACAR	1024.5 30/7, 24/13, 18/19, 1012.2 24/13, 983.1 30/7	1024.5 30/7, 24/13, 18/19, 1012.2 24/13, 983.1 30/7	1024.5 30/7, 24/13, 18/19, 1012.2 24/13, 983.1 30/7	1024.5 30/7, 24/13, 18/19, 1012.2 24/13, 983.1 30/7	1024.5 30/7, 24/13, 18/19, 1012.2 24/13, 983.1 30/7	1024.5 30/7, 24/13, 18/19, 1012.2 24/13, 983.1 30/7
	ALUMOWELD COPPERWELD	37 No. 6	37 No. 6	37 No. 6	37 No. 6	37 No. 6	37 No. 6
	Galvanized Steel	–	–	–	–	–	–
	Solid: AL or CU	–	–	–	–	–	–
	TO						
STRANDED							
	ACSR Standard Round	477.0 26/7, 24/7, 18/1, 397.5 30/7, 26/7, 24/7	556.5 18/1, 477.0, 500.0 30/7	636.0 54/7, 36/1, 26/7, 24/7, 18/1, 605.0 54/7, 30/19, 30/7, 26/7, 24/7, 556.6 30/7, 26/7, 24/7, 653.9 18/3	715.5 45/7, 666.6 54/7, 26/7, 24/7, 636.0 30/19, 30/7	795.0 45/7, 36/1, 715.5 54/7, 30/19, 30/7, 26/7, 24/7	874.5 54/7, 45/7, 795.0 54/7, 30/19, 30/7, 26/7, 24/7
	AAAC 6201-5003	465.4, 466.3, 503.6	559.5, 587.2, 599.6	652.4, 652.8, 704.6	740.8, 746.1	833.6	927.2, 932.6
	AAC Standard Round	450.0, 477.0,500.0	550.0, 556.5, 600.0	636.0, 650.0,700.0	715.5, 750.0	795.0, 800.0, 874.5	900.0, 954.0
	COPPER Standard Round	450.0, 500.0, 550.0	600.0	650.0, 700.0	750.0	800.0, 850.0	900.0
	AAC Compressed or Compacted	556.5	636.0	795.0	874.5	954.0	–
	ACSR Compressed or Compacted	556.5 18/1	636.0 18/1	795.0 36/1	874.5 36/1	954.0 36/1	–
	AWAC, ACAR	503.6 15/4, 12/7	568.3 15/4	653.1 15/4, 12/7	739.8 33/4, 30/7, 24/13, 18/19	819.2 30/7, 840.2 24/13, 853.7 30/7, 24/13, 18/19, 862.7 18/19, 927.2 30/7, 24/13, 18/19	1024.5 30/7, 24/13, 18/19, 1012.2 24/13, 983.1 30/7
	ALUMOWELD COPPERWELD	19 No. 6, 37 No. 9	37 No. 8	19 No. 5	37 No. 7	–	37 No. 6
	Galvanized Steel	3/4″	7/8″	–	1″	–	–
	Solid: AL or CU	–	–	–	–	–	–
	Use TAP Number	**602180-7***	**602180-6***	**602180-5***	**602180-4***	**602180-3***	**602180-2***

*UL Listed

STRANDED	Large Wire Groove Code						
	ACSR Standard Round	954.0 45/7, 36/1, 900.0 54/7, 45/7, 874.5 54/7, 795.0 30/7, 30/19	954.0 45/7, 36/1, 900.0 54/7, 45/7, 874.5 54/7, 795.0 30/7, 30/19	1033.5 54/7, 45/7, 36/1, 954.0 54/7, 30/7	1033.5 54/7, 45/7, 36/1, 954.0 54/7, 30/7	1033.5 54/7, 45/7, 36/1, 954.0 54/7, 30/7	1033.5 54/7, 45/7, 36/1, 954.0 54/7, 30/7
	AAAC 6201-5003	–	–	–	–	–	–
	AAC Standard Round	954.0, 1000.0	954.0, 1000.0	1033.5, 1110.0, 1113.0	1033.5, 1110.0, 1113.0	1033.5, 1110.0, 1113.0	1033.5, 1110.0, 1113.0
	COPPER Standard Round	1000.0	1000.0	–	–	–	–
	AAC Compressed or Compacted	–	–	–	–	–	–
	ACSR Compressed or Compacted	–	–	–	–	–	–
	AWAC, ACAR	1024.5 30/7, 24/13, 18/19, 1012.2 24/13, 983.1 30/7	1024.5 30/7, 24/13, 18/19, 1012.2 24/13, 983.1 30/7	1172.0 30/7, 24/13, 18/19, 33/4, 1081.0, 1109.0 30/7, 24/13, 18/19	1172.0 30/7, 24/13, 18/19, 33/4, 1081.0, 1109.0 30/7, 24/13, 18/19	1172.0 30/7, 24/13, 18/19, 33/4, 1081.0, 1109.0 30/7, 24/13, 18/19	1172.0 30/7, 24/13, 18/19, 33/4, 1081.0, 1109.0 30/7, 24/13, 18/19
	ALUMOWELD COPPERWELD	37 No. 6	37 No. 6	–	–	–	–
	Galvanized Steel	–	–	–	–	–	–
	Solid: AL or CU	–	–	–	–	–	–
	TO						
STRANDED							
	ACSR Standard Round	1033.5 54/7, 45/7, 36/1, 954.0 54/7, 45/7, 36/1, 30/7, 900.0 54/7, 45/7	1033.5 54/7, 45/7, 36/1, 954.0 30/7	6 6/1	4 7/1, 6/1, 5 6/1	2 7/1, 6/1, 3 6/1	1/0 6/1, 1 6/1, 80.0 8/1
	AAAC 6201-5003	–	–	6	4, 5	2, 3	1/0, 1
	AAC Standard Round	1000.0, 1033.5, 1100.0, 1113.0	1113.0, 1100.0	6	4, 5	2, 3	1/0, 1
	COPPER Standard Round	1000.0	–	6	4, 5	2, 3	1/0, 1
	AAC Compressed or Compacted	–	–	6	3, 4	1, 2	1/0
	ACSR Compressed or Compacted	–	–	6 6/1	4 7/1, 6/1	2 7/1, 6/1	1/0 6/1, 1 6/1
	AWAC, ACAR	1172.0 33/4, 30/7, 24/13, 18/19, 1081.0, 1109.0 30/7, 24/13, 18/19	1172.0 33/4, 30/7, 24/13, 18/19, 1109.0 30/7, 24/13, 18/19	–	–	2 6/1, 3 4/3, 5/2, 6/1, 4 4/3, 5/2, 3/4, 6/1	1 5/2, 6/1, 3 3/4, 2 4/3, 5/2, 4 2/5
	ALUMOWELD COPPERWELD	–	–	8A, 8C, 3 No. 12	6A, 6C, 7A, 7D, 8D, 3 No. 9, 3 No. 10, 7 No. 12	2F, 4A, 5A, 5D, 6D, 3 No. 7, 3 No. 8, 7 No. 10, 7 No. 11	1F, 1G, 2A, 2G, 2J, 2K, 3A, 4D, 4N, 4P, 3 No. 6, 7 No. 9
	Galvanized Steel	–	–	–	1/4", 7/32", 3/16"	5/16", 9/32"	11/32", 3/8"
	Solid: AL or CU	–	–	5, 6	2, 3, 4	1/0, 1	2/0
	Use TAP Number	**602180-1***	**602180***	**1-602180-6***	**1-602180-5***	**1-602180-4***	**1-602180-3***

*UL Listed

STRANDED	Large Wire Groove Code						
	ACSR Standard Round	1033.5 54/7, 45/7, 36/1, 954.0 54/7, 30/7	1033.5 54/7, 45/7, 36/1, 954.0 54/7, 30/7	1033.5 54/7, 45/7, 36/1, 954.0 54/7, 30/7	1033.5 54/7, 45/7, 36/1, 954.0 54/7, 30/7	1033.5 54/7, 45/7, 36/1, 954.0 54/7, 30/7	1033.5 54/7, 45/7, 36/1, 954.0 54/7, 30/7
	AAAC 6201-5003	–	–	–	–	–	–
	AAC Standard Round	1033.5, 1110.0, 1113.0	1033.5, 1110.0, 1113.0	1033.5, 1110.0, 1113.0	1033.5, 1110.0, 1113.0	1033.5, 1110.0, 1113.0	1033.5, 1110.0, 1113.0
	COPPER Standard Round	–	–	–	–	–	–
	AAC Compressed or Compacted	–	–	–	–	–	–
	ACSR Compressed or Compacted	–	–	–	–	–	–
	AWAC, ACAR	1172.0 30/7, 24/13, 18/19, 33/4, 1081.0, 1109.0 30/7, 24/13, 18/19	1172.0 30/7, 24/13, 18/19, 33/4, 1081.0, 1109.0 30/7, 24/13, 18/19	1172.0 30/7, 24/13, 18/19, 33/4, 1081.0, 1109.0 30/7, 24/13, 18/19	1172.0 30/7, 24/13, 18/19, 33/4, 1081.0, 1109.0 30/7, 24/13, 18/19	1172.0 30/7, 24/13, 18/19, 33/4, 1081.0, 1109.0 30/7, 24/13, 18/19	1172.0 30/7, 24/13, 18/19, 33/4, 1081.0, 1109.0 30/7, 24/13, 18/19
	ALUMOWELD COPPERWELD	–	–	–	–	–	–
	Galvanized Steel	–	–	–	–	–	–
	Solid: AL or CU	–	–	–	–	–	–
	TO						
STRANDED							
	ACSR Standard Round	2/0 6/1	3/0 6/1, 101.8 12/7	4/0 6/1, 110.8, 134.6 12/7	266.8 26/7, 24/7, 18/1, 6/7, 159.0, 176.9, 190.8 12/7	336.4 26/7, 24/7, 18/1, 300.0 30/7, 26/7, 24/7, 18/1, 266.8 30/7, 211.3 12/7, 203.2 16/19	397.5 26/7, 24/7, 18/1, 336.4 30/7
	AAAC 6201-5003	2/0	3/0	4/0	281.4, 307.1, 312.8	355.1, 394.5	419.6, 465.4, 466.3
	AAC Standard Round	2/0	3/0	4/0	250.0, 266.8, 300.0	336.4, 350.0	397.5, 400.0, 450.0
	COPPER Standard Round	2/0	3/0	4/0	250.0, 300.0	350.0	350.0, 400.0, 450.0
	AAC Compressed or Compacted	2/0	3/0	250.0, 266.8, 4/0	300.0, 336.4, 350.0	397.5	477.0, 500.0, 556.5
	ACSR Compressed or Compacted	2/0 6/1	3/0 6/1	4/0 6/1	266.8 18/1, 336.4 18/1	397.5 18/1	477.0 18/1
	AWAC, ACAR	1/0 5/2, 6/1, 1 4/3, 2 3/4, 3 2/5	3/0 6/1, 2/0 6/1, 5/2, 4/3, 1/0 4/3, 3/4, 1 3/4, 2/5, 2 2/5	4/0 6/1, 3/0 4/3, 5/2, 2/0 3/4, 1/0 2/5	4/0 15/4	343.6 15/4, 336.4 18/1, 16/3	336.4 15/4
	ALUMOWELD COPPERWELD	1/0F, 1/0G, 1J, 1K, 2N, 3 No.5, 7 No. 8	2/0J, 2/0G, 2/0F, 1/0K, 1/0J, 1N, 2P, 7 No. 6, 7 No. 7	4/0F, 3/0F, 2/0K, 7 No. 5, 19 No. 10	4/0E, 4/0G, 7 No. 4, 19. No. 9	19 No. 8	19 No. 7, 37 No. 10
	Galvanized Steel	–	1/2", 7/16"	9/16"	5/8"	–	3/4"
	Solid: AL or CU	3/0	4/0	250.0, 266.8, 300.0	336.4, 350.0, 397.5, 400.0	477.0, 450.0	500.0
	Use TAP Number	**1-602180-2***	**1-602180-1***	**1-602180-0***	**602180-9***	**602180-8***	**602180-7***

*UL Listed

STRANDED	Large Wire Groove Code						
	ACSR Standard Round	1033.5 54/7, 45/7, 36/1, 954.0 54/7, 30/7	1033.5 54/7, 45/7, 36/1, 954.0 54/7, 30/7	1033.5 54/7, 45/7, 36/1, 954.0 54/7, 30/7	1033.5 54/7, 45/7, 36/1, 954.0 54/7, 30/7	1033.5 54/7, 45/7, 36/1, 954.0 54/7, 30/7	1033.5 54/7, 45/7, 36/1, 954.0 54/7, 30/7
	AAAC 6201-5003	–	–	–	–	–	–
	AAC Standard Round	1033.5, 1110.0, 1113.0	1033.5, 1110.0, 1113.0	1033.5, 1110.0, 1113.0	1033.5, 1110.0, 1113.0	1033.5, 1110.0, 1113.0	1033.5, 1110.0, 1113.0
	COPPER Standard Round	–	–	–	–	–	–
	AAC Compressed or Compacted	–	–	–	–	–	–
	ACSR Compressed or Compacted	–	–	–	–	–	–
	AWAC, ACAR	1172.0 30/7, 24/13, 18/19, 33/4, 1081.0, 1109.0 30/7, 24/13, 18/19	1172.0 30/7, 24/13, 18/19, 33/4, 1081.0, 1109.0 30/7, 24/13, 18/19	1172.0 30/7, 24/13, 18/19, 33/4, 1081.0, 1109.0 30/7, 24/13, 18/19	1172.0 30/7, 24/13, 18/19, 33/4, 1081.0, 1109.0 30/7, 24/13, 18/19	1172.0 30/7, 24/13, 18/19, 33/4, 1081.0, 1109.0 30/7, 24/13, 18/19	1172.0 30/7, 24/13, 18/19, 33/4, 1081.0, 1109.0 30/7, 24/13, 18/19
	ALUMOWELD COPPERWELD	–	–	–	–	–	–
	Galvanized Steel	–	–	–	–	–	–
	Solid: AL or CU	–	–	–	–	–	–
	TO						
STRANDED							
	ACSR Standard Round	477.0 26/7, 24/7, 18/1, 397.5 30/7	556.5 26/7, 24/7, 18/1, 477.0, 500.0 30/7	636.0 54/7, 36/1, 26/7, 24/7, 18/1, 605.0 54/7, 30/19, 30/7, 26/7, 24/7, 556.5 30/7, 653.9 18/3	715.5 54/7, 45/7, 26/7, 24/7, 666.6 54/7, 26/7, 24/7, 636.0 30/19, 30/7	795.0 54/7, 45/7, 36/1, 26/7, 24/7, 715.5 30/7, 30/19	954.0 45/7, 36/1, 874.5, 900.0 54/7, 45/7, 795.0 54/7, 30/19, 30/7, 26/7, 24/7
	AAAC 6201-5003	503.6, 559.5, 599.6	587.2, 652.4, 652.8	704.6	740.8, 746.1	833.6	927.2, 932.6
	AAC Standard Round	477.0, 500.0 550.0, 556.5	600.0	636.0, 650.0, 700.0	715.5, 750.0	795.0, 800.0, 874.5	900.0, 954.0, 1000.0
	COPPER Standard Round	500.0, 550.0	600.0	650.0, 700.0	750.0	800.0, 850.0	900.0, 1000.0
	AAC Compressed or Compacted	556.5, 636.0	–	795.0	874.5	954.0	–
	ACSR Compressed or Compacted	556.518/1	636.0 18/1	795 36/1	874.5 36/1	954.0 36/1	–
	AWAC, ACAR	503.6 15/4, 12/7	568.3 15/4	653.1 15/4, 12/7	739.8 33/4, 30/7, 24/13, 18/19	862.7 18/19, 853.7 30/7, 24/13, 18/19, 840.2 24/13, 819.2 30/7	927.2, 1024.5 30/7, 24/13, 18/19, 1012.2 24/13, 983.1 30/7
	ALUMOWELD COPPERWELD	19 No. 6, 37 No. 9	37 No. 8	19 No. 5	37 No. 7	–	37 No. 6
	Galvanized Steel	–	7/8″	–	1″	–	–
	Solid: AL or CU	–	–	–	–	–	–
	Use TAP Number	**602180-6***	**602180-5***	**602180-4***	**602180-3***	**602180-2***	**602180-1***

*UL Listed

STRANDED	Large Wire Groove Code						
	ACSR Standard Round	1033.5 54/7, 45/7, 36/1, 954.0 54/7, 45/7, 30/7	1113.0 45/7, 54/19, 1192.5 36/1, 45/7	1113.0 45/7, 54/19, 1192.5 36/1, 45/7	1113.0 45/7, 54/19, 1192.5 36/1, 45/7	1113.0 45/7, 54/19, 1192.5 36/1, 45/7	1113.0 45/7, 54/19, 1192.5 36/1, 45/7
	AAAC 6201-5003	–	–	–	–	–	–
	AAC Standard Round	1033.5, 1110.0, 1113.0	1192.5, 1200.0, 1250.0, 1272.0	1192.5, 1200.0, 1250.0, 1272.0	1192.5, 1200.0, 1250.0, 1272.0	1192.5, 1200.0, 1250.0, 1272.0	1192.5, 1200.0, 1250.0, 1272.0
	COPPER Standard Round	–	–	–	–	–	–
	AAC Compressed or Compacted	–	–	–	–	–	–
	ACSR Compressed or Compacted	–	–	–	–	–	–
	AWAC, ACAR	1172.0 30/7, 24/13, 18/19, 33/4, 1081.0, 1109.0 30/7, 24/13, 18/19	–	–	–	–	–
	ALUMOWELD COPPERWELD	–	–	–	–	–	–
	Galvanized Steel	–	–	–	–	–	–
	Solid: AL or CU	–	–	–	–	–	–
	TO						
STRANDED							
	ACSR Standard Round	1033.5 54/7, 45/7, 36/1, 954.0 54/7, 45/7, 30/7	6 6/1	5 6/1, 4 6/1, 7/1	3 6/1, 2 6/1, 7/1	1/0 6/1, 1 6/1, 80.0 8/1	2/0 6/1
	AAAC 6201-5003	–	6	5, 4	3, 2	1/0, 1	2/0
	AAC Standard Round	1033.5, 1110.0, 1113.0	6	5, 4, 3	2, 1	1/0	2/0
	COPPER Standard Round	–	6	5, 4, 3	2	1/0, 1	2/0
	AAC Compressed or Compacted	–	6	4, 3	2, 1	1/0, 2/0	3/0
	ACSR Compressed or Compacted	–	6 6/1	4 6/1, 7/1	2 6/1, 7/1, 1 6/1	1/0 6/1	2/0 6/1
	AWAC, ACAR	1172.0 33/4, 30/7, 24/13, 18/19, 1081.0, 1109.0 30/7, 24/13, 18/19	–	4 6/1, 5/2	4 4/3, 3/4, 3 6/1, 5/2, 4/3, 2 6/1, 5/2	4 2/5, 3 3/4, 2/5, 2 4/3, 3/4, 1 6/1, 5/2, 4/3, 1/0 6/1	2 2/5, 1 3/4, 1/0 5/2, 4/3, 2/0 6/1
	ALUMOWELD COPPERWELD	–	8A, 8C, 3 No. 12	5A, 6A, 6C, 7A, 7D, 8D, 3 No. 9, 3 No. 10, 7 No. 12	2F, 2G, 3A, 4A, 4N, 3 No. 7, 3 No. 8, 7 No. 10, 7 No. 11	4D, 4P, 2A, 2J 2K, 1F, 1G, 1/0F, 3 No. 5, 3 No. 6, 7 No. 8, 7 No. 9	1J, 1K, 2N, 1/0G, 1/0J, 2/0F, 7 No. 7
	Galvanized Steel	–	5/16″	7/32″, 1/4″	9/32″, 5/16″	11/32″, 3/8″	7/16″
	Solid: AL or CU	–	5, 6	2, 3, 4	1/0, 1	2/0	2/0, 3/0
	Use TAP Number	**602180***	**1-602300-7**	**1-602300-6**	**1-602300-5**	**1-602300-4**	**1-602300-3**

*UL Listed

STRANDED	Large Wire Groove Code					
	ACSR Standard Round	1113.0 45/7, 54/19, 1192.5 36/1, 45/7	1113.0 45/7, 54/19, 1192.5 36/1, 45/7	1113.0 45/7, 54/19, 1192.5 36/1, 45/7	1113.0 45/7, 54/19, 1192.5 36/1, 45/7	1113.0 45/7, 54/19, 1192.5 36/1, 45/7
	AAAC 6201-5003	–	–	–	–	–
	AAC Standard Round	1192.5, 1200.0, 1250.0, 1272.0	1192.5, 1200.0, 1250.0, 1272.0	1192.5, 1200.0, 1250.0, 1272.0	1192.5, 1200.0, 1250.0, 1272.0	1192.5, 1200.0, 1250.0, 1272.0
	COPPER Standard Round	–	–	–	–	–
	AAC Compressed or Compacted	–	–	–	–	–
	ACSR Compressed or Compacted	–	–	–	–	–
	AWAC, ACAR	–	–	–	–	–
	ALUMOWELD COPPERWELD	–	–	–	–	–
	Galvanized Steel	–	–	–	–	–
	Solid: AL or CU	–	–	–	–	–
	TO	TO	TO	TO	TO	TO
STRANDED						
	ACSR Standard Round	3/0 6/1, 101.8, 110.8	4/0 6/1, 134.6, 159.0 12/7	176.9, 190.8 12/7, 266/8 18/1, 24/7, 6/7, 26/7, 30/7, 300.0 18/1	203.2 16/19, 211.3 12/7, 266.8 30/7, 300.0 24/7, 26/7, 30/7, 336.4 18/1, 24/7, 26/7	336.4 30/7, 397.5 18/1, 24/7, 26/7
	AAAC 6201-5003	3/0	4/0	281.4, 312.8, 307.1	355.1, 394.5	419.6, 465.4
	AAC Standard Round	3/0	4/0, 250.0	266.8, 300.0	336.4, 350.0, 397.5, 450.0, 477.0, 500.0	400.0, 450.0
	COPPER Standard Round	3/0	4/0, 250.0	300.0	350.0	400.0, 450.0
	AAC Compressed or Compacted	4/0	250.0, 266.8	336.4, 350.0	397.5, 477.0	500.0, 556.5
	ACSR Compressed or Compacted	3/0 6/1	4/0, 266.8 6/1	336.4 18/1	397.5 18/1	477.0 18/1
	AWAC, ACAR	1 2/5, 1/0 3/4, 2/5, 2/0 5/2, 4/3, 3/0 6/1	1/0 2/5, 2/0 3/4, 3/0 4/3, 5/2, 4/0 6/1, 15/4	–	336.4 18/1, 16/3, 15/4, 355.0 15/4, 12/7, 343.6 15/4	–
	ALUMOWELD COPPERWELD	1N, 1/0K, 2/0J, 2/0G, 3/0F, 7 No. 6	2/0K, 4/0EK, 4/0F, 4/0G, 7 No. 5, 19 No. 9, 19 No. 10	4/0E, 4/0G, 19 No. 8, 7 No. 4	19 No. 7, 37 No. 10	–
	Galvanized Steel	1/2″	9/16″	5/8″	–	3/4″
	Solid: AL or CU	4/0, 250.0	266.8, 300.0	350.0, 397.5, 400.0	–	–
	Use TAP Number	**1-602300-2**	**1-602300-1**	**1-602300-0**	**602300-9**	**602300-8**

*UL Listed

STRANDED	Large Wire Groove Code					
	ACSR Standard Round	1113.0 45/7, 54/19, 1192.5 36/1, 45/7	1113.0 45/7, 54/19, 1192.5 36/1, 45/7	1113.0 45/7, 54/19, 1192.5 36/1, 45/7	1113.0 45/7, 54/19, 1192.5 36/1, 45/7	1113.0 45/7, 54/19, 1192.5 36/1, 45/7
	AAAC 6201-5003	–	–	–	–	–
	AAC Standard Round	1192.5, 1200.0, 1250.0, 1272.0	1192.5, 1200.0, 1250.0, 1272.0	1192.5, 1200.0, 1250.0, 1272.0	1192.5, 1200.0, 1250.0, 1272.0	1192.5, 1200.0, 1250.0, 1272.0
	COPPER Standard Round	–	–	–	–	–
	AAC Compressed or Compacted	–	–	–	–	–
	ACSR Compressed or Compacted	–	–	–	–	–
	AWAC, ACAR	–	–	–	–	–
	ALUMOWELD COPPERWELD	–	–	–	–	–
	Galvanized Steel	–	–	–	–	–
	Solid: AL or CU	–	–	–	–	–
	TO	TO	TO	TO	TO	TO
STRANDED						
	ACSR Standard Round	397.5 30/7, 477.0 18/1, 24/7, 26/7	477.0, 500.0 30/7, 556.5 18/1, 24/7, 26/7	556.6 30/7, 605.0 24/7, 54/7, 26/7, 30/7, 30/19, 636.0 36/1, 18/1, 24/7, 26/7, 54/7, 653.9 18/3	636.0 30/7, 30/19, 666.6 24/7, 54/7, 26/7, 715.5 24/7, 54/7, 45/7, 26/7, 795.0 36/1	715.5 30/7, 30/19, 795.0 45/7, 24/7, 54/7, 26/7, 874.5 45/7
	AAAC 6201-5003	503.6, 559.5	587.2, 652.4	704.6, 740.8, 746.1	833.6	927.2, 932.6
	AAC Standard Round	477.0, 500.0, 550.0, 556.6	600.0, 636.0, 650.0	700.0, 715.5	750.0, 795.0, 800.0	874.5, 900.0, 954.0
	COPPER Standard Round	500.0, 550.0	600.0, 650.0	700.0	750.0, 800.0	850.0, 900.0
	AAC Compressed or Compacted	636.0	–	795.0, 874.5	954.0	–
	ACSR Compressed or Compacted	556.5, 636.0 18/1	–	795.0, 874.5 36/1	954.0 36/1	–
	AWAC, ACAR	503.6 15/4, 12/7	568.3 15/4, 653.1 15/4, 12/7	739.83 3/4, 30/7, 24/13, 18/19	819.2 30/7	840.2 24/13, 862.7 18/19, 853.7, 927.2 30/7, 24/13, 18/19
	ALUMOWELD COPPERWELD	19 No. 6, 37 No. 9	19 No. 5, 37 No. 8	–	37 No. 7	–
	Galvanized Steel	–	7/8″	–	1″	–
	Solid: AL or CU	–	–	–	–	–
	Use TAP Number	**602300-7**	**602300-6**	**602300-5**	**602300-4**	**602300-3**

*UL Listed

STRANDED	Large Wire Groove Code			
	ACSR Standard Round	1113.0 45/7, 54/19, 1192.5 36/1, 45/7	1113.0 45/7, 54/19, 1192.5 36/1, 45/7	1113.0 45/7, 54/19, 1192.5 36/1, 45/7
	AAAC 6201-5003	–	–	–
	AAC Standard Round	1192.5, 1200.0, 1250.0, 1272.0	1192.5, 1200.0, 1250.0, 1272.0	1192.5, 1200.0, 1250.0, 1272.0
	COPPER Standard Round	–	–	–
	AAC Compressed or Compacted	–	–	–
	ACSR Compressed or Compacted	–	–	–
	AWAC, ACAR	–	–	–
	ALUMOWELD COPPERWELD	–	–	–
	Galvanized Steel	–	–	–
	Solid: AL or CU	–	–	–
	TO	TO	TO	TO
STRANDED				
	ACSR Standard Round	795.0 30/7, 30/19, 874.5 54/7, 900.0 45/7, 54/7, 954.0 36/1, 45/7, 48/7	900.0 30/7, 954.0 54/7, 30/7 1033.5 36/1, 45/7, 48/7, 54/7	1113.0 45/7, 54/19, 1192.5 36/1, 45/7
	AAAC 6201-5003	–	–	–
	AAC Standard Round	1000.0, 1033.5	1100.0, 1113.0	1192.5, 1200.0, 1250.0, 1272.0
	COPPER Standard Round	1000.0	–	–
	AAC Compressed or Compacted	–	–	–
	ACSR Compressed or Compacted	–	–	–
	AWAC, ACAR	983.1 30/7, 1012.2 24/13, 1024.5 24/13, 30/7, 18/19	1081.0, 1109.0 30/7, 24/13, 30/7, 1172.0 33/4, 30/7, 24/13, 18/19	–
	ALUMOWELD COPPERWELD	37 No. 6	–	–
	Galvanized Steel	–	–	–
	Solid: AL or CU	–	–	–
Use TAP Number		**602300-2**	**602300-1**	**602300**

*UL Listed

COPPER TAPS SELECTION CHART

Wire ID Code	–	–	–	–	–	–	–
Copper Std. Round	8	6	6	4	1/0	1/0	4
Copper Compressed	–	–	–	–	–	–	–
Copper Compacted	–	–	–	–	–	–	–
Copper Solid	8, 6	4	4	2	–	–	2
COPPERWELD	–	–	–	–	–	–	–
Ground Rod	–	–	–	–	–	–	–
Pin Diameter	–	–	–	–	–	–	–
	TO	TO	TO	TO	TO	TO	TO
Copper Std. Round	8	8	6	8, 6	8, 6	4, 2	4
Copper Compressed	–	–	–	–	–	–	–
Copper Compacted	–	4	–	–	–	–	–
Copper Solid	8, 6	8	6, 4	8, 6	8, 6, 4	2	4, 2
COPPERWELD	–	–	–	–	–	–	–
Ground Rod	–	–	–	–	–	–	–
Pin Diameter	–	–	–	–	–	–	–
Use TAP Number	**2182410-5**	**2182410-5**	**2182410-4**	**2182410-4**	**2182410-2**	**21028410-2**	**2102410-3**
Wire ID Code	00	NX	NW	NT	NO	NN	MX
Copper Std. Round	1/0	2/0	2/0	2/0	2/0	2/0	3/0
Copper Compressed	1/0	2/0	2/0	2/0	2/0	2/0	3/0
Copper Compacted	2/0	3/0	3/0	3/0	3/0	3/0	4/0
Copper Solid	2/0	3/0	3/0	3/0	3/0	3/0	4/0
COPPERWELD	7 No. 8, 1G, 3 No. 5, 2K, 1/0F, 2A, 1J, 4P	7 No. 7, 1/0G, 2/0F, 1K, 1/0J, 2N	7 No. 7, 1/0G, 2/0F, 1K, 1/0J, 2N	7 No. 7, 1/0G, 2/0F, 1K, 1/0J, 2N	7 No. 7, 1/0G, 2/0F, 1K, 1/0J, 2N	7 No. 7, 1/0G, 2/0F, 1K, 1/0J, 2N	7 No. 6, 1N, 2/0J, 2P, 2/0G, 1/0K
Ground Rod	3/8″	–	–	–	–	–	1/2″
Pin Diameter	3/8″	–	–	–	–	–	1/2″
	TO	TO	TO	TO	TO	TO	TO
Copper Std. Round	1/0	5, 6	4, 3	2, 1	1/0	2/0	5, 6
Copper Compressed	1/0	–	4	2, 1	1/0	2/0	–
Copper Compacted	2/0	4	2	1, 1/0	2/0	3/0	4
Copper Solid	2/0	4	3, 2	1, 1/0	2/0	3/0	4
COPPERWELD	7 No. 8, 1G, 3 No. 5, 2K, 1/0F, 2A, 1J, 4P	8A	3 No. 10, 6C, 3 No. 9, 6A, 3 No. 8, 8D, 6D	7 No. 10, 1F, 4N, 7 No. 9, 2J, 4D, 3 No. 7, 2G, 4A, 3 No. 6, 2F	7 No. 8, 1G, 3 No. 5, 2K, 1/0F, 2A, 1J, 4P	7 No. 7, 1/0G, 2/0F, 1K, 1/0J, 2N	8A
Ground Rod	3/8″	–	–	–	3/8″	–	–
Pin Diameter	3/8″	–	–	–	3/8″	–	–
Use TAP Number	**1-275187-8***	**4-275187-0***	**3-275187-9**	**1-275187-7***	**1-275187-6***	**1-275187-5***	**3-275187-7***

*UL Listed

Wire ID Code	–	–	–
Copper Std. Round	2	2	2
Copper Compressed	–	–	–
Copper Compacted	–	–	–
Copper Solid	2, 1/0	1/0	–
COPPERWELD	–	–	–
Ground Rod	–	–	–
Pin Diameter	–	–	–
TO	TO	TO	TO
Copper Std. Round	8, 6	4	2
Copper Compressed	–	–	
Copper Compacted	–	–	–
Copper Solid	–	4, 2	1/0
COPPERWELD	–	–	–
Ground Rod	–	–	–
Pin Diameter	–	–	–
Use TAP Number	**277060-8****	**277060-9****	**277060-10****

Wire ID Code	MW	MT	MO	MN	MM	LX	LW
Copper Std. Round	3/0	3/0	3/0	3/0	3/0	4/0	4/0
Copper Compressed	3/0	3/0	3/0	3/0	3/0	4/0, 250.0	4/0, 250.0
Copper Compacted	4/0	4/0	4/0	4/0	4/0	250.0	250.0
Copper Solid	4/0	4/0	4/0	4/0	4/0	–	–
COPPERWELD	7 No. 6, 1N, 2/0J, 2P, 2/0G, 1/0KN	7 No. 6, 1N, 2/0J, 2P, 2/0G, 1/0KN	7 No. 6, 1N, 2/0J, 2P, 2/0G, 1/0K	7 No. 6, 1N, 2/0J, 2P, 2/0G, 1/0K	7 No. 6, 1N, 2/0J, 2P, 2/0G, 1/0K	7 No. 5, 4/0F, 2/0K	7 No. 5, 4/0F, 2/0K
Ground Rod	1/2"	1/2"	1/2"	1/2"	1/2"	–	–
Pin Diameter	1/2"	1/2"	1/2"	1/2"	1/2"	–	–
TO	TO	TO	TO	TO	TO	TO	TO
Copper Std. Round	4, 3	2, 1	1/0	2/0	3/0	5, 6	4, 3
Copper Compressed	4	2, 1	1/0	2/0	3/0	–	4
Copper Compacted	2	1, 1/0	2/0	3/0	4/0	4	2
Copper Solid	3, 2	1, 1/0	2/0	3/0	4/0	4	3, 2
COPPERWELD	3 No. 10, 6C, 3 No. 9, 6A, 3 No. 8, 8D, 6D	7 No. 10, 1F, 4N, 7 No9, 2J, 4D, 3 No. 7, 2G, 4A, 3 No. 6, 2F	7 No. 8, 1G, 3 No. 5, 2K, 1/0F, 2A, 1J, 4P	7 No. 7, 1/0G, 2/0F, 1K, 1/0J, 2N	7 No. 6, 1N, 2/0J, 2P, 2/0G, 1/0K	8A	3 No. 10, 6C, 3 No. 9, 6A, 3 No. 8, 8D, 6D
Ground Rod	–	–	3/8"	–	1/2"	–	–
Pin Diameter	–	–	3/8"	–	1/2"	–	–
Use TAP Number	**3-275187-6***	**1-275187-4***	**1-275187-3***	**1-275187-2***	**1-275187-1***	**3-275187-4***	**3-275187-3***

*UL Listed

Wire ID Code	LT	LO	LN	LM	LL	RX	RW
Copper Std. Round	4/0	4/0	4/0	4/0	4/0	250.0	250.0
Copper Compressed	4/0, 250.0	4/0, 250.0	4/0, 250.0	4/0, 250.0	4/0, 250.0	300.0	300.0
Copper Compacted	250.0	250.0	250.0	250.0	250.0	300.0, 350.0	300.0, 350.0
Copper Solid	–	–	–	–	–	–	–
COPPERWELD	7 No. 5, 4/0F, 2/0K	7 No. 5, 4/0F, 2/0K	7 No. 5, 4/0F, 2/0K	7 No. 5, 4/0F, 2/0K	7 No. 5, 4/0F, 2/0K	19 No. 9, 4/0EK, 7 No. 4, 4/0E, 250EK, 4/0G	19 No. 9, 4/0EK, 7 No. 4, 4/0E, 250EK, 4/0G
Ground Rod	–	–	–	–	–	5/8"	5/8"
Pin Diameter	–	–	–	–	–	9/16"	9/16"
TO	TO	TO	TO	TO	TO	TO	TO
Copper Std. Round	4, 3	2, 1	1/0	2/0	3/0	5, 6	4, 3
Copper Compressed	4	2, 1	1/0	2/0	3/0	–	4
Copper Compacted	2	1, 1/0	2/0	3/0	4/0	4	2
Copper Solid	3, 2	1, 1/0	2/0	3/0	4/0	4	3, 2
COPPERWELD	3 No. 10, 6C, 3 No. 9, 6A, 3 No. 8, 8D, 6D	7 No. 10, 1F, 4N, 7 No9, 2J, 4D, 3 No. 7, 2G, 4A, 3 No. 6, 2F	7 No. 8, 1G, 3 No. 5, 2K, 1/0F, 2A, 1J, 4P	7 No. 7, 1/0G, 2/0F, 1K, 1/0J, 2N	7 No. 6, 1N, 2/0J, 2P, 2/0G, 1/0K	8A	3 No. 10, 6C, 3 No. 9, 6A, 3 No. 8, 8D, 6D
Ground Rod	–	–	3/8"	–	1/2"	–	–
Pin Diameter	–	–	3/8"	–	1/2"	–	–
Use TAP Number	**1-275187-0***	**275187-9***	**275187-8***	**275187-7***	**275187-6***	**3-275187-1***	**3-275187-0***

Wire ID Code	RT	RO	RN	RM	RL	RR
Copper Std. Round	250.0	250.0	250.0	250.0	250.0	250.0
Copper Compressed	300.0	300.0	300.0	300.0	300.0	300.0
Copper Compacted	300.0, 350.0	300.0, 350.0	300.0, 350.0	300.0, 350.0	300.0, 350.0	300.0, 350.0
Copper Solid	–	–	–	–	–	–
COPPERWELD	19 No. 9, 4/0EK, 7 No. 4, 4/0E, 250EK, 4/0G	19 No. 9, 4/0EK, 7 No. 4, 4/0E, 250EK, 4/0G	19 No. 9, 4/0EK, 7 No. 4, 4/0E, 250EK, 4/0G	19 No. 9, 4/0EK, 7 No. 4, 4/0E, 250EK, 4/0G	19 No. 9, 4/0EK, 7 No. 4, 4/0E, 250EK, 4/0G	19 No. 9, 4/0EK, 7 No. 4, 4/0E, 250EK, 4/0G
Ground Rod	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"
Pin Diameter	9/16"	9/16"	9/16"	9/16"	9/16"	9/16"
TO	TO	TO	TO	TO	TO	TO
Copper Std. Round	2, 1	1/0	2/0	3/0	4/0	250.0
Copper Compressed	2, 1	1/0	2/0	3/0	4/0, 250.0	300.0
Copper Compacted	1, 1/0	2/0	3/0	4/0	250.0	300.0, 350.0
Copper Solid	1, 1/0	2/0	3/0	4/0	–	–
COPPERWELD	7 No. 10, 1F, 4N, 7 No. 9, 2J, 4D, 3 No. 7, 2G, 4A, 3 No. 6, 2F	7 No. 8, 1G, 3 No. 5, 2K, 1/0F, 2A, 1J, 4P	7 No. 7, 1/0G, 2/0F, 1K, 1/0J, 2N	7 No. 6, 1N, 2/0J, 2P, 2/0G, 1/0K	7 No. 5, 4/0F, 2/0K	19 No. 9, 4/0EK, 7 No. 4, 4/0E, 250EK, 4/0G
Ground Rod	–	3/8"	–	1/2"	–	5/8"
Pin Diameter	–	3/8"	–	1/2"	–	9/16"
Use TAP Number	**275187-5***	**275187-4***	**275187-3***	**275187-2***	**275187-1***	**2-275187-8***

Wire ID Code	HX	HW	HT	HO	HN	HM	HL
Copper Std. Round	300.0	300.0	300.0	300.0	300.0	300.0	300.0
Copper Compressed	–	–	–	–	–	–	–
Copper Compacted	–	–	–	–	–	–	–
Copper Solid	–	–	–	–	–	–	–
COPPERWELD	19 No. 8, 250EK	19 No. 8, 250EK	19 No. 8, 250EK	19 No. 8, 250EK	19 No. 8, 250EK	19 No. 8, 250EK	19 No. 8, 250EK
Ground Rod	–	–	–	–	–	–	–
Pin Diameter	5/8″	5/8″	5/8″	5/8″	5/8″	5/8″	5/8″
TO	TO	TO	TO	TO	TO	TO	TO
Copper Std. Round	5, 6	4, 3	2, 1	1/0	2/0	3/0	4/0
Copper Compressed	–	4	2, 1	1/0	2/0	3/0	4/0, 250.0
Copper Compacted	4	2	1, 1/0	2/0	3/0	4/0	250.0
Copper Solid	4	3, 2	1, 1/0	2/0	3/0	4/0	–
COPPERWELD	8A	3 No. 10, 6C, 3 No. 9, 6A, 3 No. 8, 8D, 6D	7 No. 10, 1F, 4N, 7 No.9, 2J, 4D, 3 No. 7, 2G, 4A, 3 No. 6 2F	7 No. 8, 1G, 3 No. 5, 2K, 1/0F, 2A, 1J, 4P	7 No. 7, 1/0G, 2/0F, 1K, 1/0J, 2N	7 No. 6, 1N,2/0J, 2P, 2/0G, 1/0K	7 No. 5, 4/0F, 2/0K
Ground Rod	–	–	–	3/8″	–	1/2″	–
Pin Diameter	–	–	–	3/8″	–	1/2″	–

Use TAP Number	6-276337-5*	6-276337-4*	6-276337-2*	6-276337-0*	5-276337-9*	5-276337-8*	5-276337-7*

Wire ID Code	HK	HH	GX	GW	GT	GO	GN
Copper Std. Round	300.0	300.0	350.0	350.0	350.0	350.0	350.0
Copper Compressed	–	–	350.0	350.0	350.0	350.0	350.0
Copper Compacted	–	–	400.0	400.0	400.0	400.0	400.0
Copper Solid	–	–	–	–	–	–	–
COPPERWELD	19 No. 8, 250EK	19 No. 8, 250EK	300EK, 250EK	300EK, 250EK	300EK, 250EK	300EK, 250EK	300EK, 250EK
Ground Rod	–	–	3/4″	3/4″	3/4″	3/4″	3/4″
Pin Diameter	5/8″	5/8″	–	–	–	–	–
TO	TO	TO	TO	TO	TO	TO	TO
Copper Std. Round	250.0	300.0	5, 6	4, 3	2, 1	1/0	2/0
Copper Compressed	300.0	–	–	4	2, 1	1/0	2/0
Copper Compacted	300.0, 350.0	–	4	2	1, 1/0	2/0	3/0
Copper Solid	–	–	4	3, 2	1, 1/0	2/0	3/0
COPPERWELD	19 No. 9, 4/0EK, 7 No. 4, 4/0E, 250EK, 4/0G	19 No. 8, 250EK	8A	3 No. 10, 6C, 3 No. 9, 6A, 3 No. 8, 8D, 6D	7 No. 10, 1F, 4N, 7 No. 9, 2J, 4D, 3 No. 7, 2G, 4A, 3 No. 6, 2F	7 No. 8, 1G, 3 No. 5, 2K, 1/0F, 2A, 1J, 4P	7 No. 7, 1/0G, 2/0F, 1K, 1/0J, 2N
Ground Rod	5/8″	–	–	–	–	3/8″	–
Pin Diameter	9/16″	5/8″	–	–	–	3/8″	–

Use TAP Number	5-276337-6*	5-276337-5*	5-276337-4*	5-276337-3*	5-276337-1*	4-276337-9*	4-276337-8*

Wire ID Code	GM	GL	GK	GH	GG	EX	EW
Copper Std. Round	350.0	350.0	350.0	350.0	350.0	400.0	400.0
Copper Compressed	350.0	350.0	350.0	350.0	350.0	400.0	400.0
Copper Compacted	400.0	400.0	400.0	400.0	400.0	450.0, 500.0	450.0, 500.0
Copper Solid	–	–	–	–	–	–	–
COPPERWELD	300EK, 250EK	300EK, 250EK	300EK, 250EK	300EK, 250EK	300EK, 250EK	300E, 350EK, 19 No. 7, 37 No. 10	300E, 350EK, 19 No. 7, 37 No. 10
Ground Rod	3/4″	3/4″	3/4″	3/4″	3/4″	–	–
Pin Diameter	–	–	–	–	–	–	–
TO	TO	TO	TO	TO	TO	TO	TO
Copper Std. Round	3/0	4/0	250.0	300	350.0	5, 6	4, 3
Copper Compressed	3/0	4/0, 250.0	300.0	–	350.0	–	4
Copper Compacted	4/0	250.0	300.0, 350.0	–	400.0	4	2
Copper Solid	4/0	–	–	–	–	4	3, 2
COPPERWELD	7 No. 6, 1N, 2/0J, 2P, 2/0G, 1/0K	7 No. 5, 4/0F, 2/0K	19 No. 9, 4/0EK, 7 No. 4, 4/0E, 250EK, 4/0G	19 No. 8, 250EK	300EK, 250EK	#8A	3 No. 10, 6C, 3 No. 9, 6A, 3 No. 8, 8D, 6D
Ground Rod	1/2″	–	5/8″	–	3/4″	–	–
Pin Diameter	1/2″	–	9/16″	5/8″	–	–	–

Use TAP Number	4-276337-7*	4-276337-6*	4-276337-5*	4-276337-4*	4-276337-3*	4-276337-2*	4-276337-1*

Wire ID Code	ET	EO	EN	EM	EL	EK	EH
Copper Std. Round	400.0	400.0	400.0	400.0	400.0	400.0	400.0
Copper Compressed	400.0	400.0	400.0	400.0	400.0	400.0	400.0
Copper Compacted	450.0, 500.0	450.0, 500.0	450.0, 500.0	450.0, 500.0	450.0, 500.0	450.0, 500.0	450.0, 500.0
Copper Solid	–	–	–	–	–	–	–
COPPERWELD	300E, 350EK, 19 No. 7, 37 No. 10	300E, 350EK, 19 No. 7, 37 No. 10	300E, 350EK, 19 No. 7, 37 No. 10	300E, 350EK, 19 No. 7, 37 No. 10	300E, 350EK, 19 No. 7, 37 No. 10	300E, 350EK, 19 No. 7, 37 No. 10	300E, 350EK, 19 No. 7, 37 No. 10
Ground Rod	–	–	–	–	–	–	–
Pin Diameter	–	–	–	–	–	–	–
TO	TO	TO	TO	TO	TO	TO	TO
Copper Std. Round	2, 1	1/0	2/0	3/0	4/0	250.0	300.0
Copper Compressed	2, 1	1/0	2/0	3/0	4/0, 250.0	300.0	–
Copper Compacted	1, 1/0	2/0	3/0	4/0	250.0	300.0, 350.0	–
Copper Solid	1, 1/0	2/0	3/0	4/0	–	–	–
COPPERWELD	7 No. 10, 1F, 4N, 7 No. 9, 2J, 4D, 3 No. 7, 2G, 4A, 3 No. 6, 2F	7 No. 8, 1G, 3 No. 5, 2K, 1/0F, 2A, 1J, 4P	7 No. 7, 1/0G, 2/0F, 1K, 1/0J, 2N	7 No. 6, 1N, 2/0J, 2P, 2/0G, 1/0K	7 No. 5, 4/0F, 2/0K	19 No. 9, 4/0EK, 7 No. 4, 4/0E, 250EK, 4/0G	19 No. 8, 250EK
Ground Rod	–	3/8″	–	1/2″	–	5/8″	–
Pin Diameter	–	3/8″	–	1/2″	–	9/16″	5/8″

Use TAP Number	3-276337-9*	3-276337-7*	3-276337-6*	3-276337-5*	3-276337-4*	3-276337-3*	3-276337-2*

Wire ID Code	EG	EE	BX	BW	BT	BO	BN
Copper Std. Round	400.0	400.0	450.0	450.0	450.0	450.0	450.0
Copper Compressed	400.0	400.0	450.0	450.0	450.0	450.0	450.0
Copper Compacted	450.0, 500.0	450.0, 500.0	550.0	550.0	550.0	550.0	550.0
Copper Solid	–	–	–	–	–	–	–
COPPERWELD	300E, 350EK, 19 No. 7, 37 No. 10	300E, 350EK, 19 No. 7, 37 No. 10	–	–	–	–	–
Ground Rod	–	–	–	–	–	–	–
Pin Diameter	–	–	3/4"	3/4"	3/4"	3/4"	3/4"

TO	TO	TO	TO	TO	TO	TO	TO

Copper Std. Round	350.0	400.0	5, 6	4, 3	2, 1	1/0	2/0
Copper Compressed	350.0	400.0	–	4	2, 1	1/0	2/0
Copper Compacted	400.0	450.0, 500.0	4	2	1, 1/0	2/0	3/0
Copper Solid	–	–	4	3, 2	1, 1/0	2/0	3/0
COPPERWELD	300EK, 250EK	300E, 350EK, 19 No. 7, 37 No. 10	#8A	3 No. 10, 6C, 3 No. 9, 6A, 3 No. 8, 8D, #6D	7 No. 10, 1F, 4N, 7 No. 9, 2J, 4D, 3 No. 7, 2G, 4A, 3 No. 6, 2F	7 No. 8, 1G, 3 No. 5, 2K, 1/0F, 2A, 1J, 4P	7 No. 7, 1/0G, 2/0F, 1K, 1/0J, 2N
Ground Rod	3/4"	–	–	–	–	3/8"	–
Pin Diameter	–	–	–	–	–	3/8"	–

Use TAP Number	3-276337-1*	3-276337-0*	2-276337-9*	2-276337-8*	276337-4*	2-276337-5*	276337-3*

Wire ID Code	BM	BL	BK	BH	BG	BE	BB
Copper Std. Round	450.0	450.0	450.0	450.0	450.0	450.0	450.0
Copper Compressed	450.0	450.0	450.0	450.0	450.0	450.0	450.0
Copper Compacted	550.0	550.0	550.0	550.0	550.0	550.0	550.0
Copper Solid	–	–	–	–	–	–	–
COPPERWELD	–	–	–	–	–	–	–
Ground Rod	–	–	–	–	–	–	–
Pin Diameter	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"

TO	TO	TO	TO	TO	TO	TO	TO

Copper Std. Round	3/0	4/0	250.0	300	350.0	400.0	450.0
Copper Compressed	3/0	4/0, 250.0	300.0	–	350.0	400.0	450.0
Copper Compacted	4/0	250.0	300.0, 350.0	–	400.0	450.0, 500.0	550.0
Copper Solid	4/0	–	–	–	–	–	–
COPPERWELD	7 No. 6, 1N, 2/0J, 2P, 2/0G, 1/0K	7 No. 5, 4/0F, 2/0K	19 No. 9, 4/0EK, 7 No. 4, 4/0E, 250EK, 4/0G	19 No. 8, 250EK	300EK, 250EK	300E, 350EK, 19 No. 7, 37 No. 10	–
Ground Rod	1/2"	–	5/8"	–	3/4"	–	–
Pin Diameter	1/2"	–	9/16"	5/8"	–	–	3/4"

Use TAP Number	2-276337-4*	276337-2*	2-276337-3*	2-276337-2*	2-276337-1*	2-276337-0*	1-276337-9*

Wire ID Code	AX	AW	AT	AO	AN	AM	AL
Copper Std. Round	500.0	500.0	500.0	500.0	500.0	500.0	500.0
Copper Compressed	500.0	500.0	500.0	500.0	500.0	500.0	500.0
Copper Compacted	600.0	600.0	600.0	600.0	600.0	600.0	600.0
Copper Solid	–	–	–	–	–	–	–
COPPERWELD	350E, 19 No.6, 37 No. 9	350E, 19 No.6, 37 No. 9	350E, 19 No.6, 37 No. 9	350E, 19 No.6, 37 No. 9	350E, 19 No.6, 37 No. 9	350E, 19 No.6, 37 No. 9	350E, 19 No.6, 37 No. 9
Ground Rod	–	–	–	–	–	–	–
Pin Diameter	–	–	–	–	–	–	–

TO	TO	TO	TO	TO	TO	TO	TO

Copper Std. Round	5, 6	4, 3	2, 1	1/0	2/0	3/0	4/0
Copper Compressed	–	4	2, 1	1/0	2/0	3/0	4/0, 250.0
Copper Compacted	4	2	1, 1/0	2/0	3/0	4/0	250.0
Copper Solid	4	3, 2	1, 1/0	2/0	3/0	4/0	–
COPPERWELD	8A	3 No. 10, 6C, 3 No. 9, 6A, 3 No. 8, 8D, 6D	7 No. 10, 1F, 4N, 7 No. 9, 2J, 4D, 3 No. 7, 2G, 4A, 3 No. 6, 2F	7 No. 8, 1G, 3 No. 5, 2K, 1/0F, 2A, 1J, 4P	7 No. 7, 1/0G, 2/0F, 1K, 1/0J, 2N	7 No. 6, 1N, 2/0J, 2P, 2/0G, 1/0K	7 No. 5, 4/0F, 2/0K
Ground Rod	–	–	–	3/8"	–	1/2"	–
Pin Diameter	–	–	–	3/8"	–	1/2"	–

Use TAP Number	1-276337-8*	1-276337-7*	276337-8*	1-276337-4*	276337-7*	1-276337-3*	276337-6*

Wire ID Code	AK	AH	AG	AE	AB	AA
Copper Std. Round	500.0	500.0	500.0	500.0	500.0	500.0
Copper Compressed	500.0	500.0	500.0	500.0	500.0	500.0
Copper Compacted	600.0	600.0	600.0	600.0	600.0	600.0
Copper Solid	–	–	–	–	–	–
COPPERWELD	350E, 19 No.6, 37 No. 9	350E, 19 No.6, 37 No. 9	350E, 19 No.6, 37 No. 9	350E, 19 No.6, 37 No. 9	350E, 19 No.6, 37 No. 9	350E, 19 No.6, 37 No. 9
Ground Rod	–	–	–	–	–	–
Pin Diameter	–	–	–	–	–	–

TO	TO	TO	TO	TO	TO	TO

Copper Std. Round	250.0	300.0	350.0	400.0	450.0	500.0
Copper Compressed	300.0	–	350.0	400.0	450.0	500.0
Copper Compacted	300.0, 350.0	–	400.0	450.0, 500.0	550.0	600.0
Copper Solid	–	–	–	–	–	–
COPPERWELD	19 No. 9, 4/0EK, 7 No. 4, 4/0E, 250EK, 4/0G	19 No. 8, 250EK	300EK, 250EK	300E, 350EK, 19 No. 7, 37 No. 10	–	350E, 19 No. 6, 37 No. 9
Ground Rod	5/8"	–	3/4"	–	–	–
Pin Diameter	9/16"	5/8"	–	–	3/4"	–

Use TAP Number	276337-9*	1-276337-2*	1-276337-1*	1-276337-0*	276337-1*	276337-5*

STIRRUP SELECTION CHART

Stirrup Selection Thru Wire Stranded	Red Shell No. 69338-2 Small Wire Range		White Shell No. 69338-5 Type II Stirrups		
ACSR Standard Round	6 6/1	2, 3, 4, 5, 6/1, 7/1	6 6/1	2, 3, 4, 5, 6/1, 7/1	1/0, 1, 2, 3, 6/1, 7/1
AAAC 6201 - 5003	6	2, 3, 4, 5	6	2, 3, 4, 5	1/0, 1, 2, 3
AAC Standard Round	6	2, 3, 4, 5	6	2, 3, 4, 5	1/0, 1, 2, 3
COPPER Standard Round	6	2, 3, 4, 5	6	2, 3, 4, 5	2, 3
AAC Compressed or Compacted	6	1, 2, 3, 4,	6	1, 2, 3, 4,	1/0, 1, 2
ACSR Compressed or Compacted	6 6/1	2, 4, 6 6/1, 7/1	6 6/1	2, 4, 6 6/1, 7/1	1/0, 1, 2
AWAC, ACAR	–	2 6/1, 3 4/3, 5/2, 6/1 4 3/4, 4/3, 5/2, 6/1	–	2 6/1, 3 4/3, 5/2, 6/1 4 3/4, 4/3, 5/2, 6/1	1/0 6/1, 2 6/1, 5/2, 4/3 3/4, 2/5, 1 6/1, 5/2, 4/3, 3 6/1, 5/2, 4/3, 3/4, 2/5
ALUMOWELD COPPERWELD	8A, 8C, 3 No. 12	2F, 2G, 3A, 4A, 4N, 5A, 5D, 6A, 6C, 6D, 7A, 7D, 8D, 3 No. 7, 3 No. 10, 3 No. 8, 7 No. 10, 7 No. 12, 3 No. 9, 7 No. 11	8A, 8C, 3 No. 12	2F, 2G, 3A, 4A, 4N, 5A, 5D, 6A, 6C, 6D, 7A, 7D, 8D, 3 No. 7, 3 No. 10, 3 No. 8, 7 No. 10, 7 No. 12, 3 No. 9, 7 No. 11	45/2, 4/3, 3/4, 5/2, 1/0F, 1F, 1G, 1J, 2A, 2F, 2G, 2J, 2K, 3A, 4A, 4D, 4N, 4P, 5D, 6D, 3 No. 5, 3 No. 6, 3 No. 7, 3 No. 8, 7 No. 8, 7 No. 9, 7 No. 10, 7 No. 11
Galvanized Steel	3/16″	1/4″, 5/16″, 7/32″, 9/32″	3/16″	1/4″, 5/16″, 7/32″, 9/32″	9/32, 5/16, 11/32, 3/8
Solid: AL or CU	6, 5, 4	3, 2, 1	6, 5, 4	3, 2, 1	1
Stirrup Color & Number	Red 600580	Red 600581	White 602585	White 602586	White 81667-1
Bail Size	#2	#2	#2	#2	#2

Red coded taps are not sold in North America and should be substituted with white coded taps.

*UL Listed

Stirrup Selection Thru Wire Stranded	Blue Shell No. 69338-1 Medium Wire Range					
ACSR Standard Round	1, 1/0, 2/0 6/1, 80.0 8/1	80.0 8/1	2/0, 3/0 6/1, 101.8, 110.8, 134.6 12/1	3/0, 4/06/1, 101.8, 110.8, 134.612/1	3/0, 4/0 6/1, 101.8, 110.8, 134.6 12/7	3/0, 4/0 6/1, 101.8, 110.8, 134.6 12/7
AAAC 6201 - 5003	1, 1/0, 2/0	1, 1/0, 2/0	2/0, 3/0	3/0, 4/0	3/0, 4/0	3/0, 4/0
AAC Standard Round	1, 1/0, 2/0	1, 1/0, 2/0	2/0, 3/0	3/0, 4/0	4/0	4/0
COPPER Standard Round	1, 1/0, 2/0	1, 1/0, 2/0	2/0, 3/0	3/0, 4/0	4/0	4/0
AAC Compressed or Compacted	1/0, 2/0	1/0, 2/0	2/0, 3/0	3/0, 4/0, 250.0, 266.8	4/0, 250.0, 266.8	4/0, 250.0, 266.8
ACSR Compressed or Compacted	1, 1/0, 2/0 6/1	1, 1/0, 2/0 6/1	2/0, 3/0 6/1	3/0, 4/0 6/1 266.8 18/1	4/0 6/1 266.8 18/1	4/0 6/1 266.8 18/1
AWAC, ACAR	2/0, 1/0, 1 6/1, 1/0 4/3, 2, 1/0, 5/2, 2, 1 2/5, 3/4, 4/3, 3 2/5, 3/4, 4 2/5	2/0, 1/0, 1 6/1, 1/0 4/3, 2, 1/0, 5/2, 2, 1 2/5, 3/4, 4/3, 3 2/5, 3/4, 4 2/5	3/0 6/1, 2/0 4/3, 5/2, 6/1, 1/0 3/4, 4/3, 5/2, 1 2/5, 3/4	4/0 6/1, 3/0 4/3, 5/2, 6/1, 2/0 4/3, 3/4, 5/2, 1/0 3/4, 2/5, 1 2/5	4/0 6/1, 3/0 4/3, 5/2, 6/1, 2/0 4/3, 3/4, 5/2, 1/0 3/4, 2/5, 1 2/5	4/0 6/1, 3/0 4/3, 5/2, 6/1, 2/0 4/3, 3/4, 5/2, 1/0 3/4, 2/5, 1 2/5
ALUMOWELD COPPERWELD	1/0F, 1/0G, 1/0J, 2/0F, 1F, 1G, 1J, 1K, 2A, 2J, 2K, 2N, 4D, 4P, 3 No. 5, 3 No. 6, 7 No. 7, 7 No. 8, 7 No. 9	1/0F, 1/0G, 1/0J, 2/0F, 1F, 1G, 1J, 1K, 2A, 2J, 2K, 2N, 4D, 4P, 3 No. 5, 3 No. 6, 7 No. 7, 7 No. 8, 7 No. 9	1/0G, 1/0J, 1/0K, 2/0F, 2/0G, 2/0J, 1N, 2N, 2P, 7 No. 6, 7 No. 7	1/0K, 2/0G, 2/0J, 2/0K, 3/0F, 4/0F, 1N, 2P, 7 No. 5, 7 No. 6, 19 No. 10	1/0K, 2/0G, 2/0J, 2/0K, 3/0F, 4/0F, 1N, 2P, 7 No. 5, 7 No. 6, 19 No. 10	1/0K, 2/0G, 2/0J, 2/0K, 3/0F, 4/0F, 1N, 2P, 7 No. 5, 7 No. 6, 19 No. 10
Galvanized Steel	11/32″, 3/8″, 7/16″	11/32″, 3/8″, 7/16″	7/16″, 1/12″	1/2″, 9/16″	1/2″, 9/16″	1/2″, 9/16″
Solid: AL or CU	1/0, 2/0, 3/0	1/0, 2/0, 3/0	2/0, 3/0, 4/0	250.0, 266.8, 300.0, 3/0, 4/0	250.0, 266.8, 300.0, 4/0	250.0, 266.8, 300.0, 4/0
Stirrup Color & Number	Blue 600464	Blue 275436-1	Blue 600468	Blue 600469	Blue 275435-1	Blue 602173
Bail Size	#2	#1/0	#2	#2	#1/0	#2/0

Stirrup Selection Thru Wire Stranded	Blue Shell No. 69338-1 Medium Wire Range			
ACSR Standard Round	266.8 24/7, 26/7, 18/1, 6/7, 159.0, 176.9, 190.8	266.8 24/7, 26/7, 18/1, 6/7, 159.0, 176.9, 190.8	266.8 6/7, 18/1, 24/1, 26/7, 30/7, 300.0 18/1, 24/7, 26/7, 336.4 18/1	266.8 6/7, 18/1, 24/1, 26/7, 30/7, 300.0 18/1, 24/7, 26/7, 336.4 18/1
AAAC 6201 - 5003	281.4, 307.1, 312.8	281.4, 307.1, 312.8	281.4, 307.1, 312.8, 355.1	281.4, 307.1, 312.8, 355.1
AAC Standard Round	250.0, 266.8, 300.0	250.0, 266.8, 300.0	300.0, 336.4, 350.0	300.0, 336.4, 350.0
COPPER Standard Round	250.0, 300.0	250.0, 300.0	250.0, 300.0, 350.0	250.0, 300.0, 350.0
AAC Compressed or Compacted	266.8, 300.0, 336.4, 350.0	266.8, 300.0, 336.4, 350.0	336.4, 350.0, 397.5	336.4, 350.0, 397.5
ACSR Compressed or Compacted	266.8, 336.418/1	266.8, 336.418/1	336.4, 397.518/1	336.4, 397.518/1
AWAC, ACAR	4/0 15/4	4/0 15/4	336.4 18/1, 343.6 15/4, 355.0 15/4, 12/7	336.4 18/1, 343.6 15/4, 355.0 15/4, 12/7
ALUMOWELD COPPERWELD	4/0E, 4/0G, 7 No. 4, 19 No. 8, 19 No. 9	4/0E, 4/0G, 7 No. 4, 19 No. 8, 19 No. 9	4/0E, 7 No. 4, 19 No. 8	4/0E, 7 No. 4, 19 No. 8
Galvanized Steel	5/8″	5/8″	5/8″	5/8″
Solid: AL or CU	336.4, 350.0, 397.6, 400.0	336.4, 350.0, 397.6, 400.0	397.5, 400.0, 450.0	397.5, 400.0, 450.0
Stirrup Color & Number	Blue 600463	Blue 602201	Blue 602502	Blue 276478-1
Bail Size	#2	#1/0	#1/0	#2

Stirrup Selection Thru Wire Stranded	Yellow Shell No. 69338-4 Large Wire Range					
ACSR Standard Round	336.4 26/7, 24/7, 18/1, 266.8 30/7, 300.0 18/1, 24/7, 26/7, 30/7, 211.3 12/7, 203.2 16/19	336.4 26/7, 24/7, 18/1, 266.8 30/7, 300.0 18/1, 24/7, 26/7, 30/7, 211.3 12/7, 203.2 16/19	336.4 26/7, 24/7, 18/1, 266.8 30/7, 300.0 18/1, 24/7, 26/7, 30/7, 211.3 12/7, 203.2 16/19	477.0 26/7, 24/7, 18/1, 336.4 30/7, 397.5 30/7, 26/7, 24/7, 18/1	477.0 26/7, 24/7, 18/1, 336.4 30/7, 397.5 30/7, 26/7, 24/7, 18/1	477.0 26/7, 24/7, 18/1, 336.4 30/7, 397.5 30/7, 26/7, 24/7, 18/1
AAAC 6201 - 5003	355.1, 394.5, 394.6	355.1, 394.5, 394.6	355.1, 394.5, 394.6	419.6, 466.3, 465.4, 503.6	419.6, 466.3, 465.4, 503.6	419.6, 466.3, 465.4, 503.6
AAC Standard Round	336.4, 350.0, 397.5, 400.0	336.4, 350.0, 397.5, 400.0	336.4, 350.0, 397.5, 400.0	450.0, 477.0, 500.0, 550.0, 556.5	450.0, 477.0, 500.0, 550.0, 556.5	450.0, 477.0, 500.0, 550.0, 556.5
COPPER Standard Round	350.0, 400.0	350.0, 400.0	350.0, 400.0	450.0, 500.0, 550.0	450.0, 500.0, 550.0	450.0, 500.0, 550.0
AAC Compressed or Compacted	336.4, 350.0, 397.5	336.4, 350.0, 397.5	336.4, 350.0, 397.5	477.0, 500.0, 556.6, 636.0	477.0, 500.0, 556.6, 636.0	477.0, 500.0, 556.6, 636.0
ACSR Compressed or Compacted	336.4, 397.518/1	336.4, 397.518/1	336.4, 397.518/1	477.0, 556.6, 636.018/1	477.0, 556.6, 636.018/1	477.0, 556.6, 636.018/1
AWAC, ACAR	343.6 15/4, 355.01 5/4, 12/7, 336.4 18/1, 16/3, 15/4	343.6 15/4, 355.01 5/4, 12/7, 336.4 18/1, 16/3, 15/4	343.6 15/4, 355.01 5/4, 12/7, 336.4 18/1, 16/3, 15/4	503.6 15/4, 12/7, 336.4 15/4	503.6 15/4, 12/7, 336.4 15/4	503.6 15/4, 12/7, 336.4 15/4
ALUMOWELD COPPERWELD	4/0E, 7 No. 4, 19 No. 7, 19 No. 8, 37 No. 10	4/0E, 7 No. 4, 19 No. 7, 19 No. 8, 37 No. 10	4/0E, 7 No. 4, 19 No. 7, 19 No. 8, 37 No. 10	19 No. 6, 37 No. 8	19 No. 6, 37 No. 9	19 No. 6, 37 No. 9
Galvanized Steel	5/8″	5/8″	5/8″	3/4″	3/4″	3/4″
Solid: AL or CU	450.0, 477.0, 500.0	450.0, 477.0, 500.0	450.0, 477.0, 500.0	–	–	–
Stirrup Color & Number	Yellow 600474	Yellow 602142	Yellow 602136	Yellow 602047	Yellow 602143	Yellow 602247
Bail Size	1/0	2/0	4/0	1/0	2/0	4/0

Stirrup Selection Thru Wire Stranded	Yellow Shell No. 69338-4 Large Wire Range				
ACSR Standard Round	556.5 26/7, 24/7, 18/1, 477.0 30/7, 26/7, 24/7	556.5 26/7, 24/7, 18/1, 477.0 30/7, 26/7, 24/7	556.5 26/7, 24/7, 18/1, 477.0 30/7, 26/7, 24/7	556.5 30/7, 605.0, 636.0 54/7, 24/7, 26/7, 30/19, 30/7, 636.0 18/1, 36/1, 653.9 18/3 666.6 24/7, 54/7, 26/7	556.5 30/7, 605.0, 636.0 54/7, 24/7, 26/7, 30/19, 30/7, 636.0 18/1, 36/1, 653.9 18/3 666.6 24/7, 54/7, 26/7
AAAC 6201 - 5003	559.5, 587.2, 599.6, 652.4, 652.8	559.5, 587.2, 599.6, 652.4, 652.8	559.5, 587.2, 599.6, 652.4, 652.8	704.6, 740.8, 746.1	704.6, 740.8, 746.1
AAC Standard Round	550.0, 556.5, 600.0, 636.5	550.0, 556.5, 600.0, 636.5	550.0, 556.5, 600.0, 636.0	650.0, 700.0, 715.5, 750.0	650.0, 700.0, 715.5, 750.0
COPPER Standard Round	550.0, 600.0	550.0, 600.0	550.0, 600.0	650.0, 700.0, 750.0	650.0, 700.0, 750.0
AAC Compressed or Compacted	–	–	–	795.0, 874.5	795.0, 874.5
ACSR Compressed or Compacted	636.0 18/1	636.0 18/1	636.0 18/1	795.0, 874.5 36/1	795.0, 874.5 36/1
AWAC, ACAR	653.1 15/4, 12/7 568.3 15/4	653.1 15/4, 12/7 568.3 15/4	653.1 15/4, 12/7 568.3 15/4	739.8 33/4, 30/7, 24/13, 18/19	739.8 33/4, 30/7, 24/13, 18/19
ALUMOWELD COPPERWELD	19 No. 5, 37 No. 8	19 No. 5, 37 No. 8	19 No. 5, 37 No. 8	37 No. 7	37 No. 7
Galvanized Steel	7/8″	7/8″	7/8″	1″	1″
Solid: AL or CU	–	–	–	–	–
Stirrup Color & Number	Yellow 602104	Yellow 602248	Yellow 602115	Yellow 602174	Yellow 275074
Bail Size	1/0	2/0	4/0	2/0	4/0

Stirrup Selection Thru Wire Stranded	Yellow Shell No. 69338-4 Large Wire Range		
ACSR Standard Round	715.5, 795.5 54/7, 24/7, 26/7, 30/19, 30/7, 45/7, 795.5 36/1, 874.5 45/7	715.5, 795.5 54/7, 24/7, 26/7, 30/19, 30/7, 45/7, 795.5 36/1, 874.5 45/7	874.5 54/7, 900.0 45/7, 54/7, 954.0 30/7, 954.0, 1033.5 36/1, 45/7, 54/7
AAAC 6201 - 5003	833.6, 927.2, 932.6	833.6, 927.2, 932.6	–
AAC Standard Round	795.0, 800.0, 874.5, 900.0, 954.0	795.0, 800.0, 874.5, 900.0, 954.0	1000.0, 1033.5, 1100.0, 1113.0
COPPER Standard Round	800.0, 850.0, 900.0	800.0, 850.0, 900.0	1000.0
AAC Compressed or Compacted	954.0	954.0	–
ACSR Compressed or Compacted	954.0 36/1	954.0 36/1	–
AWAC, ACAR	819.2, 853.7, 927.2, 983.1 30/7, 840.2, 853.7, 927.2 24/13, 853.7, 862.7, 927.2 18/19	819.2, 853.7, 927.2, 983.1 30/7, 840.2, 853.7, 927.2 24/13, 853.7, 862.7, 927.2 18/19	1012.2 24/13, 1172.0 33/4, 1024.5, 1081.0, 1109.0, 1172.0 30/7, 24/13, 18/19
ALUMOWELD COPPERWELD	37 No. 6	37 No. 6	–
Galvanized Steel	–	–	–
Solid: AL or CU	–	–	–
Stirrup Color & Number	Yellow 602162	Yellow 602163	Yellow 602237
Bail Size	2/0	4/0	4/0



Chapter 2
TE Raychem Low Voltage Splices & Taps

Low Voltage In-line Splices
- Heat Shrink 126
- Cold Applied 134

Low Voltage Taps 137

MWTM Medium-Wall Sealant-Coated or Uncoated Tubing

FEATURES

- TE Raychem MWTM Tubing is RUS accepted as jacket restoration of JCN cable
- 3:1 shrink ratio and an unlimited shelf life when stored under normal conditions

APPLICATIONS

- Sealant-coated MWTM tubing (-S designation) is for use as insulation/jacket repair up to 600 V or for general sealing and rejacketing of polymeric- or elastomeric-insulated cables up to 35 kV
- Uncoated MWTM tubing (-U or -A/U) is for cable rejacketing only

BENEFITS

- Designed to Match Cable Performance
- Range Taking
- Conforms to Substrate
- Smallest Installed Profile
- Quick Installation
- Unlimited Shelf Life
- Cut to Length at Job Site



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Use Range (min - max)	Cut-Piece Length	Min. Cont. Length	Standard Package		
				Box	Spool	Bulk Spool
Sealant-Coated, Cut-Length Tubing						
MWTM-10/3-1200-S	0.13-0.35 (3-9)	48 (1200)		25		
MWTM-16/5-1200-S	0.25-0.55 (6-14)	48 (1200)		25		
MWTM-25/8-1200-S	0.35-0.85 (9-22)	48 (1200)		25		
MWTM-35/12-1200-S	0.50-1.25 (13-32)	48 (1200)		25		
MWTM-50/16-1200-S	0.65-1.70 (17-43)	48 (1200)		15		
MWTM-85/25-1200-S	1.00-2.90 (25-74)	48 (1200)		5		
MWTM-115/34-1200-S	1.40-3.90 (36-99)	48 (1200)		5		
MWTM-140/42-1200-S	1.80-4.70 (46-119)	48 (1200)		5		
Uncoated, Spooled Tubing						
MWTM-10/3-A/U	0.13-0.35 (3-9)		25 (7.6)		100 (30)	
MWTM-16/5-A/U	0.25-0.55 (6-14)		25 (7.6)		100 (30)	1155 (350)
MWTM-25/8-A/U	0.35-0.85 (9-22)		25 (7.6)		100 (30)	660 (200)
MWTM-35/12-A/U	0.50-1.25 (13-32)		25 (7.6)		100 (30)	495 (150)
MWTM-50/16-A/U	0.65-1.70 (17-43)		15 (4.6)		75 (23)	330 (100)
Uncoated, Cut Length Tubing						
MWTM-85/25-1500/U	1.00-2.90 (25-74)	60 (1500)		5		
MWTM-115/34-1500/U	1.40-3.90 (36-99)	60 (1500)		5		
MWTM-140/42-1500/U	1.80-4.70 (46-119)	60 (1500)		5		

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number. Confirm selection with application dimensions to assure proper sizing.
- MWTM is a general purpose tubing; for sealing applications use MWTM with sealant (-S) or use uncoated MWTM (-U or -A/U) in combination with S-1052 sealant. Order sealants separately.
- For testing information refer to the Technical Data section of this catalog.
- UV resistant test report: EDR-5361.

For connector information refer to the Connectors and Terminals section of this catalog.

WCSM Heavy-Wall Sealant Coated Tubing

FEATURES

- 4:1 shrink ratio
- TE Raychem WCSM tubing is UL and cUL listed per 486D (file E91151) for sizes 12/3 through 70/20
- Qualified to ANSI C119.1 and rated to Western Underground guide 2.5
- RUS accepted for use as a secondary tap or splice cover, and for use as jacket restoration materials on JCN cable

APPLICATIONS

- Seal an in-line splice or terminal lug seal for non-flame retardant applications, cable re-jacketing and mechanical protection
- Jacket repair on cables up to 35 kV
- For use on standard poly or elastomeric insulated / jacketed cable or lead-jacketed cables, which may include aluminum or steel armoring

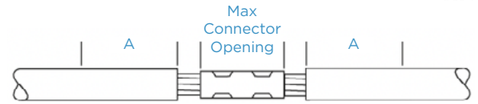
BENEFITS

- Designed to Match Cable Performance
- Range Taking
- Conforms to Substrate
- Smallest Installed Profile
- Quick Installation
- Unlimited Shelf Life
- Cut to Length at Job Site

c UL us LISTED

Wire Connector System for use with Underground Connectors 96J4





PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	1000V Cable Nominal Use Range AWG/kcmil Min - Max	Maximum Connector O.D.	UL Conductor Use Range Min - Max	General Conductor Use Range Min - Max	Max Connector Opening	Min Seal Length per Side A
WCSM-12/3-150-S	#14-#6	0.29	.13-.30 (3.5-7.7)	.13-.39 (3.5-10)	2.4	1.5
WCSM-12/3-300-S	#14-#6	0.29	.13-.30 (3.5-7.7)	.13-.39 (3.5-10)	7.8	1.5
WCSM-12/3-1200-S	#14-#6	0.29	.13-.30 (3.5-7.7)	.13-.39 (3.5-10)	39.3	1.5
WCSM-16/4-150-S	#8-#2	0.41	.17-.41 (4.5-10.5)	.17-.55 (4.5-14)	1.4	2
WCSM-16/4-300-S	#8-#2	0.41	.17-.41 (4.5-10.5)	.17-.55 (4.5-14)	6.8	2
WCSM-16/4-1200-S	#8-#2	0.41	.17-.41 (4.5-10.5)	.17-.55 (4.5-14)	38.3	2
WCSM-24/6-150-S	#6-#4/0	0.69	.25 -.64 (6.5-16.5)	.25-.86 (6.5-22)	1.4	2
WCSM-24/6-225-S	#6-#4/0	0.69	.25 -.64 (6.5-16.5)	.25-.86 (6.5-22)	3.96	2
WCSM-24/6-300-S	#6-#4/0	0.69	.25 -.64 (6.5-16.5)	.25-.86 (6.5-22)	6.8	2
WCSM-24/6-1200-S	#6-#4/0	0.69	.25 -.64 (6.5-16.5)	.25-.86 (6.5-22)	38.3	2
WCSM-34/8-150-S	#2-500	1.06	.35 -.94 (9-24)	.35-1.22 (9-31)	1.4	2
WCSM-34/8-200-S	#2-500	1.06	.35 -.94 (9-24)	.35-1.22 (9-31)	3.02	2
WCSM-34/8-225-S	#2-500	1.06	.35 -.94 (9-24)	.35-1.22 (9-31)	3.96	2
WCSM-34/8-300-S	#2-500	1.06	.35 -.94 (9-24)	.35-1.22 (9-31)	6.8	2
WCSM-34/8-1200-S	#2-500	1.06	.35 -.94 (9-24)	.35-1.22 (9-31)	38.48	2
WCSM-48/12-150-S	#2/0-750	1.3	.51-1.12 (13-28.5)	.51-1.73 (13-44)	1.4	2
WCSM-48/12-225-S	#2/0-750	1.3	.51-1.12 (13-28.5)	.51-1.73 (13-44)	3.96	2
WCSM-48/12-300-S	#2/0-750	1.3	.51-1.12 (13-28.5)	.51-1.73 (13-44)	6.8	2
WCSM-48/12-1200-S	#2/0-750	1.3	.51-1.12 (13-28.5)	.51-1.73 (13-44)	38.3	2
WCSM-56/16-225-S	250-1000	1.5	.68-1.27 (17.5-32.5)	.70-1.96 (17.5-50)	3.96	2
WCSM-56/16-300-S	250-1000	1.5	.68-1.27 (17.5-32.5)	.70-1.96 (17.5-50)	6.62	2
WCSM-56/16-1200-S	250-1000	1.5	.68-1.27 (17.5-32.5)	.70-1.96 (17.5-50)	38.3	2
WCSM-70/20-300-S	500-500	1.84	.92-1.40 (22-35.8)	.86-2.48 (22-63)	5.8	2.5
WCSM-70/20-450-S	500-1500	1.84	.92-1.40 (22-35.8)	.86-2.48 (22-63)	10.93	2.5
WCSM-70/20-600-S	500-1500	1.84	.92-1.40 (22-35.8)	.86-2.48 (22-63)	16.26	2.5
WCSM-70/20-1200-S	500-1500	1.84	.92-1.40 (22-35.8)	.86-2.48 (22-63)	37.3	2.5
WCSM-110/30-300-S	800-2000	-	-	1.29-3.93 (33-100)		2.5
WCSM-110/30-1200-S	800-2000	-	-	1.29-3.93 (33-100)		2.5
WCSM-130/35-300-S	1500-2500	-	-	1.49-4.64 (39-118)		2.5
WCSM-130/35-450-S	1500-2500	-	-	1.49-4.64 (39-118)		2.5
WCSM-130/35-1200-S	1500-2500	-	-	1.49-4.64 (39-118)		2.5

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number based on typical dimensions for low-voltage insulated cable. Confirm selection with dimensions to assure proper sizing. For general conductor use or UL conductor use.
- Package does not contain connectors or lugs. Installed connector or lug diameter must be within use range.
- TE Raychem WCSM tubing may be field-cut for shorter requirements
- Bulk packaging is available for cut lengths. Consult your TE representative for more information.
- UL listing applies to WCSM-12/3 through -70/20 only. WCSM-110/30 and -130/35 are not UL listed.
- Related test reports: EDR 5541, PII 56428

FCSM Heavy-Wall Flame Retardant Tubing (2000 V)

FEATURES

- TE Raychem FCSM tubing is flame retardant
- 3:1 shrink ratio
- Qualified to ANSI C119.1 also rated to IEEE 383 (Vertical Tray Flame Test) and ICEA S-19-81
- MSHA approved (No. 07-KA090013-MSHA)

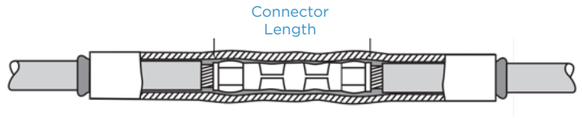
APPLICATIONS

- Use sealant-coated tubing (-S) as a sealed in-line splice or terminal lug seal.
- Use uncoated tubing (-/U) for cable rejacketing only
- Sealant-coated or uncoated tubing may be used for jacket repair on cable to 35 kV
- For use on standard poly- or elastomeric-insulated/jacketed cables or lead jacketed cables (aluminum or steel armoring)
- Used for electrical insulation of cables up to 2000 V

BENEFITS

- Designed to Match Cable Performance
- Range Taking
- Conforms to Substrate
- Quick Installation
- Unlimited Shelf Life
- Cut to Length at Job Site
- Unlimited shelf life when stored in normal conditions





Connectors up to 6 inches: Recommended cut length = connector length + 4 inches
Connectors > 6 inches: Recommended cut length = connector length + 5 inches

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	2000 V Insulated Conductor Size (AWG/kcmil)	General Use Range (min - max)	Tube Length*	Standard Package		
				Ft. (m)/Roll	Pcs/Box	Ft. (m)/Roll
In-Line Splice Or Terminal Lug Seal (With Sealant)						
FCSM-9/3-1200-S	#14-#8	0.15-0.30 (4-8)	48 (1200)		25	
FCSM-19/6-150-S	#6-#2	0.25-0.65 (6-17)	6 (150)		50	
FCSM-19/6-1200-S	#6-#2	0.25-0.65 (6-17)	48 (1200)		25	
FCSM-28/9-225-S	#2-4/0	0.40-0.95 (10-24)	9 (225)		50	
FCSM-28/9-1200-S	#2-4/0	0.40-0.95 (10-24)	48 (1200)		25	
FCSM-38/12-300-S	1/0-350	0.50-1.30 (13-33)	12 (300)		40	
FCSM-38/12-1200-S	1/0-350	0.50-1.30 (13-33)	48 (1200)		10	
FCSM-51/16-300-S	250-500	0.70-1.75 (18-44)	12 (300)		30	
FCSM-51/16-1200-S	250-500	0.70-1.75 (18-44)	48 (1200)		10	
FCSM-68/22-1200-S	600-1000	0.95-2.30 (25-58)	48 (1200)		10	
FCSM-90/30-1200-S	800-1200	1.30-3.10 (33-79)	48 (1200)		5	
FCSM-120/40-1200-S	1500-2500	1.75-4.10 (44-104)	48 (1200)		5	
FCSM-177/63 600-S		2.75-6.05 (70-154)	24 (600)		6	
FCSM-177/63-1200-S		2.75-6.05 (70-154)	48 (1200)		5	
Cable Rejacketing (Without Sealant)						
FCSM-9/3-A/U	#14-#8	0.15-0.30 (4-8)		100 (30)		
FCSM-19/6-A/U	#6-#2	0.25-0.65 (6-17)		100 (30)		825 (250)
FCSM-28/9-A/U	#2-4/0	0.40-0.95 (10-24)		65 (20)		495 (150)
FCSM-38/12-A/U	1/0-350	0.50-1.30 (13-33)		50 (15)		395 (120)
FCSM-51/16-A/U	250-500	0.70-1.75 (18-44)		40 (12)		330 (100)
FCSM-68/22-A/U	600-1000	0.95-2.30 (25-58)		80 (24)		
FCSM-90/30-1500/U	800-1200	1.30-3.10 (33-79)	60 (1500)		5	
FCSM-120/40-1500/U	1500-2500	1.75-4.10 (44-104)	60 (1500)		5	
FCSM-177/63-1500/U		2.75-6.05 (70-154)	60 (1500)		5	

**Length tolerance to +/- 2%.*

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number based on typical dimensions for low-voltage insulated cable. Confirm selection with cable dimensions to assure proper sizing.
- Connectors or lugs not included.
- If sealing is needed with uncoated FCSM tubing (-/U), order S1052 separately.
- Bulk packaging is available for cut-lengths. Contact your TE Connectivity representative for additional information.
- Designed to Match Cable Performance
- Related test reports: EDR-5133, EDR-5134, EDR-5141, EDR-5499.

CRSM Heat Shrink Wraparound Sleeves (2000 V)

FEATURES

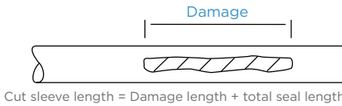
- All of TE Raychem CRSM sleeves are sealant-coated
- Qualified to ANSI C119.1
- RUS accepted for use as jacket restoration materials on JCN cable

APPLICATIONS

- For use on standard poly- or elastomeric insulated/jacketed cables or lead-jacketed cables, which may include aluminum or steel armoring
- Use as insulation for 1/C low-voltage power cable up to 2000 V, jacket repair up to 35 kV, or general sealing applications

BENEFITS

- CRSM sleeves close easily with a permanent locking system that consists of a raised rail profile and a stainless steel channel
- Excellent water seal - tested in one foot head of water
- Conforms to Substrate
- Unlimited shelf life when stored in normal conditions



Cut sleeve length = Damage length + total seal length (see chart)



Damage Total	Total Seal Length
<3 (<76)	3 (76)
3-12 (76-305)	4 (102)
12-24 (305-610)	6 (152)
>24 (>610)	8 (203)

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Application Range (R)		H	F	Thickness W
	min.	max.	Expanded min.	Expanded min.	Recovered min.
CRSM 34/10	11 (0.43)	27 (1.06)	120 (4.72)	12 (0.47)	2 (0.08)
CRSM 53/13	17 (0.66)	43 (1.69)	165 (6.49)	25 (0.98)	2 (0.08)
CRSM 84/20	24 (0.94)	68 (2.67)	260 (10.23)	34 (1.33)	2 (0.08)
CRSM 107/29	32 (1.25)	86 (3.38)	340 (13.38)	34 (1.33)	2 (0.08)
CRSM 143/36	39 (1.53)	115 (4.52)	460 (18.11)	34 (1.33)	1.8 (0.07)
CRSM 198/55	60 (2.36)	160 (6.29)	700 (27.55)	34 (1.33)	1.8 (0.07)
CRSM 250/98	105 (4.13)	200 (7.87)	820 (32.28)	34 (1.33)	1.8 (0.07)

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number for either primary electrical repair (2000 V max.) or general sealing applications. Electrical repair selections are based on typical dimensions for low-voltage insulated cable. Confirm selection with cable dimensions to assure proper sizing.
- Use the "Primary electrical repair" columns for electrical repair applications (when CRSM is in direct contact with the conductor).
- Use the "General sealing use range" column for general rejacketing or sealing applications (when CRSM is not in direct contact with the conductor).
- Package does not contain connectors.
- Kits include a wraparound sleeve and stainless steel channel closure. Both can be field-cut for shorter requirements
- Related test report: EDR-5124, EDR-5192, EDR-5388 and EDR-5776. UV resistant test report: EDR-5361.
- CRSM-34/10 and CRSM-84/20 are available in shorter standard lengths by ordering the corresponding CRSM-CT kits. (The use ranges in the selection information table still apply).

For connector information refer to the Connectors and Terminals section of this catalog.

CRSM CT Heat Shrink Wraparound Cable Tap Splices (2000 V)

FEATURES

- TE Raychem CRSM CT Splices are qualified to ANSI C119.1 rated to ICEA electrical withstand test for 2000 V
- RUS accepted for use with compression and split-bolt connectors
- Kit contains sealant strip and cloth tape for sealing tap connection
- Sealant-coated

APPLICATIONS

- Wraparound, sealed cable tap splice on standard poly- or elastomeric insulated conductors (2000 V)

BENEFITS

- CRSM sleeves close easily with a permanent locking system that consists of a raised rail profile and a stainless steel channel
- Designed to match cable performance
- Conforms to substrate
- Unlimited shelf life when stored in normal conditions



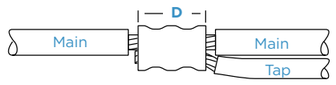
PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Sleeve Length	Conductor Size (2000 V max.)		Connector Dimension (max D)	Std. Pack
		Main (AWG/kcmil)	Tap (AWG/kcmil)		
Compression connector					
CRSM-CT-34/10-150	6 (150)	#8-#2	#10-#2	2 (51)	10
CRSM-CT-53/13-200	8 (200)	#2-4/0	#10-4/0	4 (102)	10
CRSM-CT-84/20-250	10 (250)	4/0-500	#2-500	6 (152)	10
Standard split-bolt connector					
CRSM-CT-53/13-200	8 (200)	#8-#2	#14-#2	1.5 (38)	10

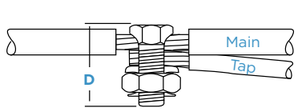
ADDITIONAL PRODUCT INFORMATION

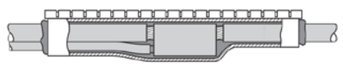
- Select the appropriate catalog number based on the main and tap conductor sizes and connector type for electrical repair (2000 V max.). Selections are based on typical dimensions for low-voltage insulated cable. Confirm selection with cable dimensions to assure proper sizing.
- Kits are capable of insulating and sealing wye (3-wire) or H (4-wire) configurations up to 2000 V.
- Kits do not contain connectors.
- Standard package: 10 kits/box.
- Related test report: EDR-5192, EDR-5776.
- UV resistant test report: EDR-5361.

Compression Connector



Split-Bolt Connector





For connector information refer to the Connectors and Terminals section of this catalog.

LV-MSK Heat Shrink Flexible Mining Cable Splices (600 V-2 kV)

FEATURES

- MSHA approved to P-137-4--MSHA

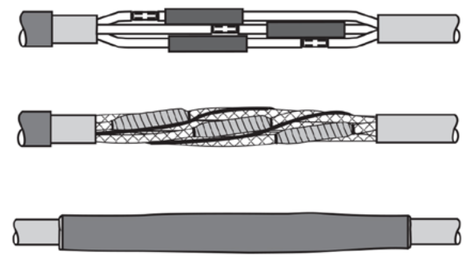
APPLICATIONS

- Flame-retardant, in-line and multi-conductor splice kits for use on mining cables and standard flexible cables up to 2 kV
- For types G, W, G-GC, and SHD-GC round and flat cables

BENEFITS

- Designed to Match Cable Performance
- Conforms to Substrate
- Unlimited shelf life when stored in normal conditions





PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Cable Diameter (min - max)	Power Conductor Size (AWG/kcmil)			Standard Pack (Kits/Box)
		G or G - GC 3/C	W or G 2/C	W 4/C	
LV-MSK (600 V-2 kV) - Flat cables					
LV-MSK-046(B15)	0.85-1.40 (22-36)		#6-#2		15
LV-MSK-047	1.30-2.40 (33-61)	#6-#1	#1-4/0	#6-#1	10
LV-MSK-058	1.60-3.15 (41-80)	#2-4/0		#2-4/0	5
Round cables					
LV-MSK-045(B20)	0.85-1.40 (22-36)	#8-#6	#8-#6		20
LV-MSK-046(B15)	0.85-1.40 (22-36)	#6-#2	#6-#4		15
LV-MSK-047	1.30-2.40 (33-61)	#2-3/0	#3-3/0	#6-1/0	10
LV-MSK-058	1.60-3.15 (41-80)	2/0-500	2/0-350	1/0-350	5

ADDITIONAL PRODUCT INFORMATION

- Kits do not contain connectors; please order separately.
- LV-MSK-045 has a lower profile than LV-MSK-046.
- If 5-8 kV is required see HV-MSK.

GelWrap Water Resistant Wraparound Splice Closures (1000 V)

FEATURES

- PowerGel silicone sealant in TE Raychem GelWrap closure encapsulates the connection
- Corrugated design enables greater range taking ability
- Qualified to ANSI C119.1

APPLICATIONS

- Insulate and seal buried electrical connections rated up to 1000 V
- Jacket repair
- Engineered to handle the harsh environments of direct burial and manhole applications

BENEFITS

- PowerGel conforms to substrate providing reliable seal against moisture ingress
- Quick installation, snap closure
- No special tools required
- Excellent insulating properties
- Easy, clean re-entry into electrical connection
- Unlimited shelf life

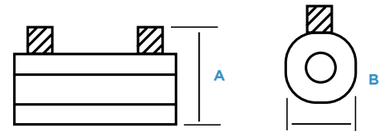


Testing	Test Conditions
ANSI C119.1	600 V insulated underground
Chemical Resistance	Fluid immersion, 168 hours @ 23°C, 75% elongation retention minimum • 10W-40 motor oil • 10% hydrochloric acid • 15% sodium chloride • 20% sodium hydroxide • ETX 60280 antifreeze (1000 hours)
Accelerated Aging	1000 hours @ 135°C • 93% retention tensile strength • 82% retention elongation at break

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Sleeve Length	Conductor Size	Max Connector Opening	Max General Use Diameter Range	Std. Pack
GelWrap-18/4-100	4.0 (100)	#12-4/0 (4-95)	1.0 (25)	0.15-0.70 (4-18)	6
GelWrap-18/4-150	6.0 (150)	#12-4/0 (4-95)	3.0 (75)	0.15-0.70 (4-18)	6
GelWrap-18/4-200	8.0 (200)	#12-4/0 (4-95)	5.0 (125)	0.15-0.70 (4-18)	6
GelWrap-18/4-250	10.0 (250)	#12-4/0 (4-95)	7.0 (175)	0.15-0.70 (4-18)	6
GelWrap-18/4-300	12.0 (300)	#12-4/0 (4-95)	9.0 (225)	0.15-0.70 (4-18)	6
GelWrap-33/10-150	6.0 (150)	#2-500 (35-240)	2.0 (50)	0.40-1.30 (10-33)	6
GelWrap-33/10-200	8.0 (200)	#2-500 (35-240)	4.0 (100)	0.40-1.30 (10-33)	6
GelWrap-33/10-250	10.0 (250)	#2-500 (35-240)	6.0 (150)	0.40-1.30 (10-33)	6
GelWrap-33/10-300	12.0 (300)	#2-500 (35-240)	8.0 (200)	0.40-1.30 (10-33)	12
GelWrap-33/10-350	14.0 (350)	#2-500 (35-240)	10.0 (250)	0.40-1.30 (10-33)	10
GelWrap-50/20-200	8.0 (200)	250-750	2.0 (50)	0.80-1.50 (20-38)	12
GelWrap-50/20-250	10.0 (250)	250-750	4.0 (100)	0.80-1.50 (20-38)	12
GelWrap-50/20-300	12.0 (300)	250-750	6.0 (150)	0.80-1.50 (20-38)	12
GelWrap-50/20-350	14.0 (350)	250-750	8.0 (200)	0.80-1.50 (20-38)	12
GelWrap-50/20-400	16.0 (400)	250-750	10.0 (250)	0.80-1.50 (20-38)	12
GelWrap-UF-200	8.0 (200)	14/2-8/3 w/ground	N/A	N/A	10

For connector information refer to the Connectors and Terminals section of this catalog.



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Sleeve Length	1000V Cable Range	Max Connector Opening	Max Compression Connector Dia.	Max Mechanical Connector Dimesnsions	
					Height* (A)	Width (B)
GelWrap-18/4-150UL	6.0 (150)	#14-4/0 AWG	2.0 (50)	0.85 (22)	1.2 (30)	1.1 (28)
GelWrap-18/4-200UL	8.0 (200)	#14-4/0 AWG	4.0 (100)	0.85 (22)	1.2 (30)	1.1 (28)
GelWrap-18/4-250UL	10.0 (250)	#14-4/0 AWG	6.0 (150)	0.85 (22)	1.2 (30)	1.1 (28)
GelWrap-18/4-300UL	12.0 (300)	#14-4/0 AWG	8.0 (200)	0.85 (22)	1.2 (30)	1.1 (28)
GelWrap-18/4-350UL	14.0 (350)	#14-4/0 AWG	10.0 (250)	0.85 (22)	1.2 (30)	1.1 (28)
GelWrap-18/4-400UL	16.0 (400)	#14-4/0 AWG	612.0 (300)	0.85 (22)	1.2 (30)	1.1 (28)
GelWrap-18/4-450UL	18.0 (450)	#14-4/0 AWG	14.0 (350)	0.85 (22)	1.2 (30)	1.1 (28)
GelWrap-18/4-500UL	20.0 (500)	#14-4/0 AWG	16.0 (400)	0.85 (22)	1.2 (30)	1.1 (28)
GelWrap-18/4-550UL	22.0 (550)	#14-4/0 AWG	18.0 (450)	0.85 (22)	1.2 (30)	1.1 (28)
GelWrap-18/4-600UL	24.0 (600)	#14-4/0 AWG	20.0 (500)	0.85 (22)	1.2 (30)	1.1 (28)
GelWrap-UF-250UL	10.0 (250)	14/2-8/3 w/ground	N/A	N/A	N/A	

**Height includes screws with cable installed.*

Notes: UL denotes UL & cUL for submersible applications. For other sizes or applications, a minimum seal length is required on each side of connector opening or jacket damage: GelWrap closure 18/4 series 1.5 (38), GelWrap closure 33/10 series 2.0 (51), GelWrap closure 50/20 series 3.0 (75).

ADDITIONAL PRODUCT INFORMATION

- Selection is based on typical dimensions for low-voltage insulated cables.
- Related test reports: EDR-5343-18/4, EDR-5356-33/10, EDR-5367 for 50/20, EDR-5356 for GelWrap-33/10-250-I350M4 (A four screw connector is included). EDR-5356-GelWrap-UF)

For connector information refer to the Connectors and Terminals section of this catalog.

Rayvolve RVS “Roll-on” Splices for 1/C Power Cable (1000 V)

FEATURES

- Qualified to ANSI C119.1. CSA certified to C22.2 No. 198.2. RUS accepted for use as a secondary tap or splice cover
- TE Raychem RVS splice cover sleeves feature a dual-wall design with an entrapped lubricant, making installation fast and simple. The elastomeric sleeve rolls onto the cable with minimal effort, even at temperatures below –15°F (–25°C)

APPLICATIONS

- For use on standard poly- or elastomeric-insulated cables. Use to insulate and seal in-line compression connectors or to seal terminal lugs
- Specially formulated EPDM elastomer combines with the high-performance sealant to form a water-resistant, insulating sleeve that is for direct burial application over in-line compression connectors

BENEFITS

- Easy “roll-on” installation to effectively insulate and seal cable connections up to 1000 V
- Ideal for use where gas or electric heating devices are not approved



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Conductor Size (AWG/kcmil)	Cable OD (min - max)	Sleeve Length	Max Connector Length
RVS-11	#8-2/0	.22-.68 (6-17)	8.0 (205)	5.00 (127)
RVS-12	1/0-250	.50-.90 (13-23)	9.5 (241)	4.50 (114)
RVS-13	250-600	.70-1.20 (18-30)	12.0 (305)	7.00 (178)
RVS-14	600-1000	.95-1.50 (24-38)	14.0 (356)	9.00 (229)

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number. Selections are based on typical dimensions of low-voltage insulated cable. Confirm selection with dimensions to assure proper sizing.
- Kits do not contain connectors. The RVS splice cover selection information mentioned above covers copper and aluminum in-line compression connections.
- Each kit contains one Rayvolve RVS splice cover sleeve and sealant strips
- Standard package: 5 kits/box or 50 kits/box.

GILS Gel In-Line Water Resistant Splice Kit for Power Cable (2000 V)

FEATURES

- Connector accommodates copper and/or aluminum cables
- Qualified to ANSI C119 for underground splicing
- UV resistant
- Qualified for temperatures from -40°C to 90°C
- Connector included
- RUS accepted connector blocks and splices for secondary
- Water-tight for use in all locations

APPLICATIONS

- TE Raychem GILS gel in-line splice kits, offer a state-of-the-art sealed splice for underground, buried, and overhead applications. GILS closures offer a fast and simple method for splicing, insulating, and environmentally sealing low-voltage cable splices

BENEFITS

- TE Raychem PowerGel conforms to substrate providing reliable seal against moisture ingress
- Quick installation, snap closure
- No special tools required
- Excellent insulating properties
- Easy, clean re-entry into electrical connection
- Unlimited shelf life



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Conductor Size (AWG/kcmil)	Std. Pack
GILS-4/0	#2-4/0	18 or 72 each
GILS-350	1/0-350	18

ADDITIONAL PRODUCT INFORMATION

- Based on typical dimensions for low-voltage insulated cables.
- Related test reports: EDR-5298, EDR-5394 and EDR-5776.

GHFC Water Resistant H-Frame Closures for Power Cable (1000 V)

FEATURES

- Molded cover of UV stable, impact-resistant polypropylene provides rugged protection for underground or overhead applications
- Gel conforms to substrate to effectively seal out moisture and contaminants
- Qualified to ANSI C119.1
- Qualified for temperatures from -40°C to 90°C

APPLICATIONS

- Fast, simple method for insulating and environmentally sealing low-voltage cable-taps and splices made with H-frame compression connectors. Common applications are street light connections and overhead transformer leads

BENEFITS

- TE Raychem PowerGel conforms to substrate providing reliable seal against moisture ingress
- Quick installation, snap closure
- No special tools required
- Excellent insulating properties
- Easy, clean re-entry into electrical connection
- Unlimited shelf life when stored in normal conditions



ADDITIONAL PRODUCT INFORMATION

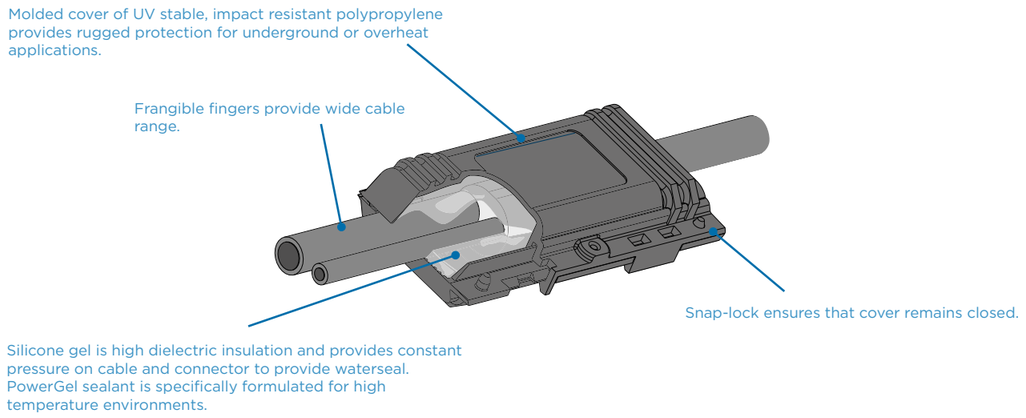
- Select the appropriate catalog number. Selections are based on typical dimensions for low-voltage, insulated cables and connectors.
- Approved connectors (supplied by others) include, but are not limited to:

Product	Approved Connectors
GHFC-1-90	Homac UB214; T&B 63105; Blackburn WR9; Burndy YPC2A8U
GHFC-2-90	Homac OB22, OB44, OB102, OB103; Burndy YHO-1, YHO-2, YHO100, YHO125, YHO150; Blackburn WR139, WR159, WR179, WR199; ILSCO AH1; T&B 63110; UTILCO HT1, HT2

- Standard packs of 100 ea. are also available. Substitute a (B100) in place of the (B10) in the catalog number.
- Related test report: GHFC-1-90 and GHFC-2-90,EDR-5264, GHFC-3-90, EDR-5326.

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Conductor Size		Die	Box Dimensions			Std Pack
	Main	Std. Tap		Length	Width	Height	
GHFC-1-90	#6-#2	#14-#8	BG	2.75 (70)	1.625 (41)	1.0625 (27)	10 or 100
GHFC-2-90	#2-2/0	#14-#6	O	4.25 (108)	2.0 (51)	1.1875 (30)	10 or 100
GHFC-2.5-90	1/0-4/0	#6-3/0	D	7.032 (179)	2.75 (70)	1.560 (40)	30 each
GHFC-3-90	350	4/0	D	6.25 (159)	3.250 (83)	1.90 (49)	6 or 18



GTAP Water Resistant Splices (1000 V)

FEATURES

- Molded cover of UV stable, impact-resistant polypropylene provides rugged protection for underground or overhead applications
- TE Raychem gel conforms to substrate to effectively seal out moisture and contaminants
- Four port (2-in, 2-out design), range-taking mechanical connectors splice a wide range of copper and aluminum cables

APPLICATIONS

- Connect, insulate, and seal low-voltage splices (1000 V)
- Commonly used in street lighting applications

BENEFITS

- PowerGel conforms to substrate providing reliable seal against moisture ingress
- Quick installation, snap closure
- No special tools required
- Excellent insulating properties
- Easy, clean re-entry into electrical connection
- Unlimited shelf life when stored in normal conditions

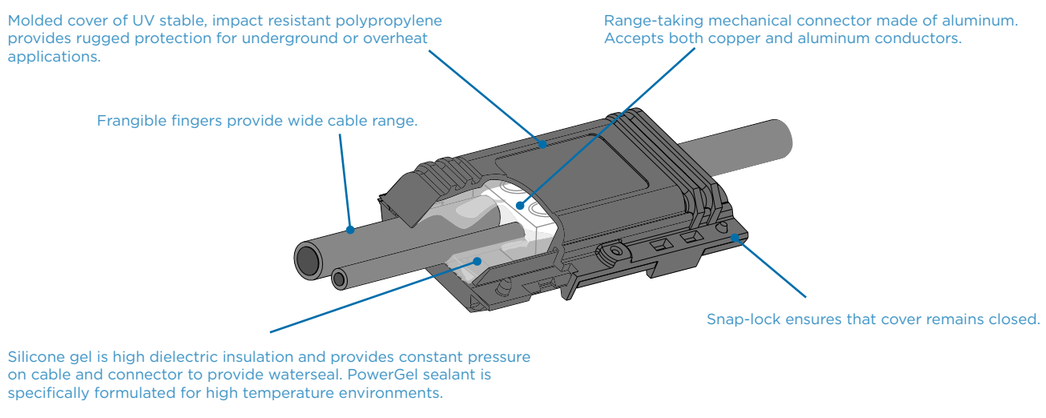


SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Conductor Size (All Outlets) AWG (mm2)	Length	Width	Height	Standard Pack
GTAP-1	#14-#2 (2-35)	2.75 (70)	1.625 (41)	1.0625 (27)	18 or 72
GTAP-2	#14-2/0 (2-70)	4.25 (108)	2 (51)	1.1875 (30)	18 or 72

ADDITIONAL PRODUCT INFORMATION

- Selection based on typical dimensions of low-voltage insulated cables.



2

Gelport Submersible Connectors for URD Distribution (1000 V)

FEATURES

- TE Raychem GelPort is qualified to ANSI C119.1
- Gel-filled cable entry ports provide a reliable cable seal
- PowerGel sealing gel seals out harsh environments
- Rugged, impact-resistant housing stands up to rough installations
- Clear view back allows for easy positive visual indication of wire position in connector

APPLICATIONS

- Multi-port secondary connectors for low voltage submersible (hand hole / man hole) applications

BENEFITS

- TE Raychem PowerGel conforms to substrate providing reliable seal against moisture ingress
- Quick and easy installation
- Clean re-entry into electrical connection
- Unlimited shelf life when stored in normal conditions
- No loose parts due to one piece housing



Testing	Approved Connectors
Complete unit	ANSI C119.1, Report: EDR-5379, EDR-5409, EDR-5427, EDR 5463
Connector	ANSI C119.4, Report: 502-47264, 502-47302, 502-47308
Chemical Resistance	ASTM D543 to the following liquids: Sulfuric Acid, Sodium Sulfate, Sodium Chloride, Sodium Hydroxide, Ethylene Glycol
UV Resistance	ASTM G-53-95, ASTM-D-638-95

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

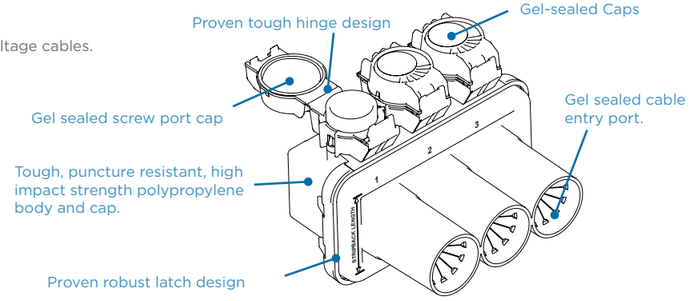
Catalog Number*	Number of Wire Ports	Conductor Use Range (mm2)	Length	Width	Height	Std. Pack
GelPort 350/500						
GPRT-350-3P(B6)	3	14-350 (2-150)	4.60 (117)	3.825 (97)	3.50 (89)	6
GPRT-350-4P(B6)	4	14-350 (2-150)	5.85 (149)	3.825 (97)	3.50 (89)	6
GPRT-350-5P(B6)	5	14-350 (2-150)	7.10 (180)	3.825 (97)	3.50 (89)	6
GPRT-350-6P(B6)	6	14-350 (2-150)	8.35 (212)	3.825 (97)	3.50 (89)	6
GPRT-350-8P(B6)	8	14-350 (2-150)	10.85 (276)	3.825 (97)	3.50 (89)	6
GPRT-350/4P-500/1P (B6)	5 Hybrid		7.10 (180)	3.825 (97)	3.50 (89)	6
	4	14-350 (2-150)				
	1	6-500 (16-250)				
GPRT-350/6P-500/2P (B6)	8 Hybrid		10.85 (276)	3.825 (97)	3.50 (89)	6
	6	14-350 (2-150)				
	2	6-500 (16-250)				

Catalog Number*	Clear View	Number of Wire Ports	Max Cable OD	Max Number 500 kcmil Cables	Legnth	Width	Height
GelPort 500							
GPRT-500-3P(B6)	C	3	0.96	1 (#6-500 kcmil)	4.6 (117)	3.825 (97)	3.50 (89)
GPRT-500-4P(B6)	C	4	0.96	2 (#6-500 kcmil)	5.85 (149)	3.825 (97)	3.50 (89)
GPRT-500-5P(B6)	C	5	0.96	3 (#6-500 kcmil)	7.1 (180)	3.825 (97)	3.50 (89)
GPRT-500-6P(B6)	C	6	0.96	4 (#6-500 kcmil)	8.35 (212)	3.825 (97)	3.50 (89)
GPRT-500-8P(B6)	C	8	0.96	6 (#6-500 kcmil)	10.85 (276)	3.825 (97)	3.50 (89)

**For Clear view back housing, add "-C" to end of catalog number. Standard housing is black.*

ADDITIONAL PRODUCT INFORMATION

- Selection based on typical dimensions of low voltage cables.
- Standard package is 6/box.



GelCap SL Water Resistant Splice Covers for Street Lights (1000 V)

FEATURES

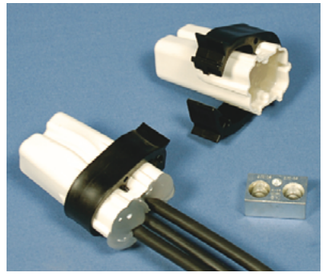
- Three wire connector is perfect for street light connections - two ports accept #14-2/0 AWG for the feeder cables and a single port for a #14-6 AWG wire to power the light
- Temperature range - 40˚C to 105˚C

APPLICATIONS

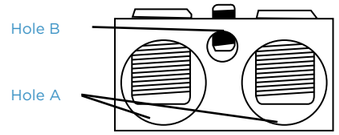
- TE Raychem GelCap SL Insulates, seals, and protects street lighting connections
- Other applications include irrigation systems, HVAC, and motor connections

BENEFITS

- TE Raychem PowerGel conforms to substrate providing reliable seal against moisture ingress
- Quick installation, snap closure
- No special tools required
- Excellent insulating properties
- Easy, clean re-entry into electrical connection
- Unlimited shelf life when stored in normal conditions



Testing	Test Conditions
Chemical Resistance	ASTM D543, Sulfuric acid, Sodium Hydroxide and motor oil
Ozone Resistance	ASTM D1149, 168 hours @ 40˚C, 50 pphm
Accelerated Aging	ASTM D2671
Abrasion Resistance	2040 gm wt., 4000 cycles, 2% max thickness loss



SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Hole A		Hole B		Standard Pack
	Wire Range	Recommended Torque Values	Wire Range	Recommended Torque Values	
GelCap-SL-2/0-3HOLE(B10)	#14-2/0 AWG	120-180 in-lbs	#14-6 AWG	120-150 in-lbs	10
GelCap-SL-2/0-3HOLE-B100	#14-2/0 AWG	120-180 in-lbs	#14-6 AWG	120-150 in-lbs	100

ADDITIONAL PRODUCT INFORMATION

- Selections are based on typical dimensions of low-voltage insulated cables.
- Kits include UL Listed connectors for use with copper and/or aluminum conductors.
- Each kit contains a gel filled cap, cap clamp, and connector.
- Related test reports: EDR-5334, EDR-5352, EDR-5488, EDR-5520.
- Qualified to ANSI C 119.1 per EDR-5520.

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600 V/105OC

GelCap Water Resistant Stub Splice Covers (1000 V)

FEATURES

- TE Raychem GelCap gel conforms to substrate to effectively seal out moisture and contaminants
- Corrugated cover design increases range-taking ability
- UL Listed for US and Canada (CUL) 105°C

APPLICATIONS

- Insulate, seal, and protect stub splice connections up to 1000 V. Common applications include motor connections, street lights, HVAC, landscape lighting, and irrigation systems

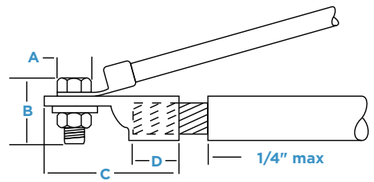
BENEFITS

- TE Raychem PowerGel conforms to substrate providing reliable seal against moisture ingress
- Quick installation, snap closure
- No special tools required
- Excellent insulating properties
- Easy, clean re-entry into electrical connection



Testing	Test Conditions
Chemical Resistance	ASTM D543, Sulfuric acid, Sodium hydroxide and motor oil
Ozone Resistance	ASTM D1149, 168 hours @40°C, 50pphm
Accelerated Aging	ASTM D2671
Abrasion Resistance	2040 gm wt., 4000 cycles, 2% max thickness loss

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600V/105°C

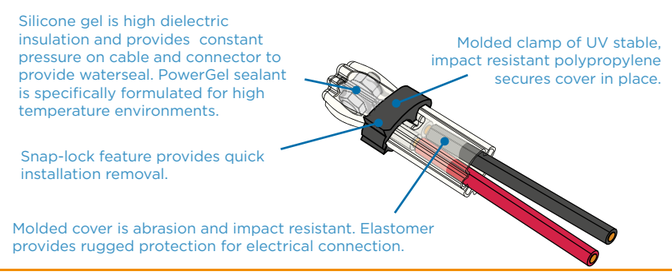


SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Max Bolt Dimensions							
Catalog Number	Feeder Conductor Size (mm)	Width (A)	Length (B)	Max Lug Dimensions Total Length (C)	Barrel Length (D)	Cap Length (Nominal)	Standard Pack
GelCap 1(B5)*	#16-#10 AWG (1.5-5)	.375 (10)	.500 (13)	1.00 (25)	0.5 (13)	2.8 (71)	5
GelCap 2(B5)	#8-#2 AWG (8-35)	.625 (16)	1.00 (25)	2.00 (51)	1.0 (25)	3.5 (89)	5
GelCap 3(B5)	#2-#4/0 AWG (35-105)	.850 (22)	1.30 (33)	3.00 (76)	1.5 (38)	6.0 (152)	5
GelCap 4(B5)	250-500 kcmil (125-250)	1.100 (28)	1.85 (47)	5.00 (127)	2.0 (51)	8.0 (203)	5

** For wire sizes #16 – #10, the unique design of the GelCap 1 splice kit saves space by allowing all three phase connections to be installed in one cover. Note: GelCap 1 kit contains one GelCap cover only. For GelCap splice kits sizes 2-4, one cap per phase is provided.*

ADDITIONAL PRODUCT INFORMATION
- Selection based on typical dimensions of low-voltage insulated cables.
- Kits do not contain connectors.
- Related test report: EDR-5435.



MCK Heat Shrink Motor Connection Kits for 1/C (2000 V)

FEATURES

- TE Raychem MCK motor connection is qualified to ANSI C119.1 and ICEA
- Available in two types:
  - Type V kit for stub / butt splice, #14-500 kcmil
  - Type L kit for In-line splice, #8-1000 kcmil

APPLICATIONS

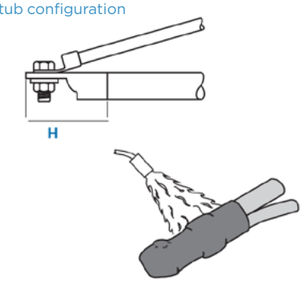
- Application: in-line or stub splice between 1/C feeder cable and motor leads

BENEFITS

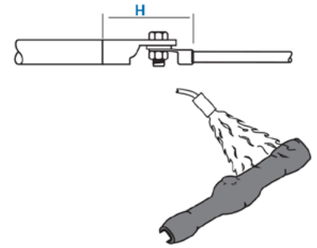
- Excellent insulation sealing and resistance to abrasion in motor connections



Type V
Stub configuration



Type L
In-line configuration



SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Motor Feeder Size (AWG/kcmil)	Bolt Length (max)	Connection Length (max) H	Length (Nominal)	Standard Pack
Stub Type V				**Cap**	
MCK-1V	#14-#10	0.625	2.0 (51)	2.5 (64)	5
MCK-2V	#12-#4	0.75	2.5 (64)	3.4 (86)	5
MCK-3V	#2-4/0	1	3.5 (89)	4.5 (114)	5
MCK-4V	250-500	1.5	4.5 (114)	6.5 (165)	5
In-Line Type L				**Sleeve**	
MCK-1L	#8-4/0	1.25	5.0 (127)	9.0 (229)	5 for 1l and 2l
MCK-2L	250-1000	1.25	8.0 (203)	12.0 (305)	

Note: Product Rating:
600 V rating – phase to ground per ANSI C119.1
1000 V rating – phase to phase per ANSI C119.1
2000 V rating – EDR 5110; ICEA S-66-524 (2 kV class) AC and DC voltage withstand

ADDITIONAL PRODUCT INFORMATION
- Select appropriate catalog number based on the motor feeder cable. MCK selections are based on the typical dimensions of 100% insulated cables manufactured in accordance with AEIC CS5 and AEIC CS6, as well as the dimensions connectors. Nominal insulation thickness (100%): 90 mils. For cables manufactured to other specifications, confirm selection with cable and connector dimensions.
- MCK kits are designed for single-hole connectors and include caps and sealant strips for three connections. Kits do not contain connectors.
- Related test report: MCK: EDR-5110.

For connector information refer to the Connectors and Terminals section of this catalog.

Rayvolve RVC "Roll-on" Stub Connection Splice Cover Kits (1000 V)

FEATURES

- Elastomeric RVC cap splice cover provides the required insulation thickness, withstands abrasion, and forms a water-resistant seal
- Qualified to ANSI C-119.1

APPLICATIONS

- Insulate and seal 1 kV stub connections (motor leads and street lights)

BENEFITS

- Fast and easy roll-on installation - Install all 3 phases at the same time
- Tool-free and compact size makes TE Raychem RVC cap ideal for installation in cramped motor boxes



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Conductor Size (AWG/kcmil)	Insulation Cut-Back (max)
Three-wire stub splices		
RVC-1V	#14-#8	1.75 (44)
RVC-2V	#6-#2	2.75 (70)

Catalog Number	Feeder Size (AWG/kcmil)	Bolt Dimensions		Lug Length (max)	Cap Length (Nominal)	Standard Pack
		Size (max)	Length (max)			
Motor Connections or two-wire stub splices						
RVC-1V(B5)	#14-#4	.375 (8)	.625 (15)	1.75 (45)	3.00 (75)	5
RVC-2V(B5)	#8-2/0	.375 (8)	.750 (20)	2.75 (70)	4.00 (100)	5
RVC-3V(B5)	#2-4/0	.500 (12)	1.00 (25)	3.00 (75)	5.25 (130)	5
RVC-4V(B5)	250-500	.625 (16)	1.50 (35)	5.00 (125)	7.50 (190)	5

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number. Selections are based on typical dimensions of low-voltage insulated cable. Confirm selection with dimensions to assure proper sizing.
- Each kit contains one Rayvolve RVC splice cover sleeve and sealant strips.
- Standard package: 5 kits/box.
- Related test report: EDR-5614.
- For connector information refer to the Connectors and Terminals section of this catalog.

Smart Limiter and Crab Joints Cable Protection

FEATURES

- 100% submersible
- Sealing and mechanical protection are built in, eliminating the need for additional components
- Gel-filled cable entries will quench an arc when "live" connections are made
- Hinged bolt caps allow re-entry, enabling voltage measurements to be taken
- Modular design allows circuits to be added or subtracted without cutting cables
- No parts to move, slide or park when installing or removing the limiter
- Tested fault duty of 25 kA per limiter
- Designed specifically for 208 Y/120 V systems

APPLICATIONS

- Protects underground secondary cable from damage by short-circuit fault currents
- Designed for specific cable size (4/0, 250 kcmil, 350 kcmil, 500 kcmil, 750 kcmil)
- Installed in-line on individual cables or ganged together in a "crab joint"
- 100% submersible copper buses (crab joints) are also available, making installation of TE Smart Limiter system compact, convenient and reliable. Available in 3-Way, 5-Way and 7-Way configurations

BENEFITS

- Increases reliability by protecting cable system from damage
- Clear housing provides quick visual identification of blown limiters reducing the time to find faulted limiters
- Fast and easily repeatable installation regardless of installer experience
- High-temperature clear inner and outer shells help in dissipating heat



PRODUCT SELECTION INFORMATION

Catalog Number	Description	Per Box
Smart Limiter		
SL-4/0-120V-NF-FT (B1)	Non-Fused splice for 4/0 cable	1
SL-4/0-120V-F-01 (B1)	Fused limiter for 4/0 cable	1
SL-250-120V-NF-FT (B1)	Non-Fused splice for 250 kcmil cable	1
SL-250-120V-F-01 (B1)	Fused limiter for 250 kcmil cable	1
SL-350-120V-NF-FT (B1)	Non-Fused splice for 350 kcmil cable	1
SL-350-120V-F-01 (B1)	Fused limiter for 350 kcmil cable	1
SL-500-120V-NF-FT (B1)	Non-Fused splice for 500 kcmil cable	1
SL-500-120V-F-01 (B1)	Fused limiter for 500 kcmil cable	1
SL-750-120V-NF-FT (B1)	Non-Fused splice for 750 kcmil cable	1
SL-750-120V-F-01 (B1)	Fused limiter for 750 kcmil cable	1
Copper Crab Joints		
CJ-4/0-3W3W-CU-FT-B1	3 way/3 way joint with 4/0 conductors	1
CJ-4/0-5W5W-CU-FT-B1	5 way/5 way joint with 4/0 conductors	1
CJ-4/0-7W7W-CU-FT-B1	7 way/7 way joint with 4/0 conductors	1
CJ-250-3W3W-CU-FT-B1	3 way/3 way joint with 250 kcmil conductors	1
CJ-250-5W5W-CU-FT-B1	5 way/5 way joint with 250 kcmil conductors	1
CJ-250-7W7W-CU-FT-B1	7 way/7 way joint with 250 kcmil conductors	1
CJ-350-3W3W-CU-FT-B1	3 way/3 way joint with 350 kcmil conductors	1
CJ-350-5W5W-CU-FT-B1	5 way/5 way joint with 350 kcmil conductors	1
CJ-350-7W7W-CU-FT-B1	7 way/7 way joint with 350 kcmil conductors	1
CJ-500-3W3W-CU-FT-B1	3 way/3 way joint with 500 Kcmil conductors	1
CJ-500-5W5W-CU-FT-B1	5 way/5 way joint with 500 kcmil conductors	1
CJ-500-7W7W-CU-FT-B1	7 way/7 way joint with 500 kcmil conductors	1
CJ-750-3W3W-CU-FT-B1	3 way/3 way joint with 750 kcmil conductors	1
CJ-750-5W5W-CU-FT-B1	5 way/5 way joint with 750 kcmil conductors	1
CJ-750-7W7W-CU-FT-B1	7 way/7 way joint with 750 kcmil conductors	1

RELATED TEST REPORTS:
EDR-5445, EDR-5446, EDR-5450, EDR-5452, 502-47332, 502-47339, 502-47348.





Chapter 3
TE Raychem Medium Voltage Cable Accessories

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HVS-500/HVSA-500 Splices for 1/C & 3/C Inline Cable, Including Armored

FEATURES

- TE Raychem HVS/HVSA-500 splices are rated to meet the applicable portions of IEEE 404

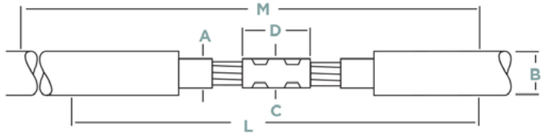
APPLICATIONS

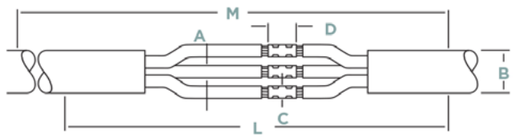
- Non-shielded cable splices provide high abrasion-resistance and a positive environmental seal

BENEFITS

- Kits accommodate both jacketed and unjacketed cable







PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Conductor Size (AWG/kcmil)	Min - Max Insulator Dia. (A)	Jacket O.D. (max) (B)	Max Connector O.D. (C)	Max Connector Length (D)	Kit Installed Length (L)	Required Install Space (M)
1/C Non-Shielded Power Cable							
HVS-501	#6-#1	0.40-0.70 (10-18)	0.80 (20)	0.65 (17)	3.0 (76)	10 (254)	22 (559)
HVS-502	1/0-300	0.65-1.05 (17-27)	1.20 (30)	1.00 (25)	4.0 (102)	11 (279)	24 (610)
HVS-503	350-1000	0.95-1.65 (24-42)	1.84 (47)	1.85 (47)	6.0 (152)	15 (381)	30 (762)
HVS-3-500 3/C Non-Shielded Power Cable - No Armor							
HVS-3-501	#6-#1	0.40-0.70 (10-18)	3.00 (76)	0.65 (17)	3.0 (76)	32 (812)	40 (1016)
HVS-3-502	1/0-300	0.65-1.05 (17-27)	3.00 (76)	1.00 (25)	4.0 (102)	40 (1016)	48 (1219)
HVS-3-503	350-1000	0.95-1.65 (24-42)	3.95 (100)	1.85 (47)	6.0 (152)	48 (1219)	56 (1422)
HVSA-3-500 3/C Non-Shielded Power Cable - Armor							
HVSA-3-501	#6-#1	0.40-0.70 (10-18)	3.00 (76)	0.65 (17)	3.0 (76)	40 (1016)	48 (1219)
HVSA-3-502	1/0-300	0.65-1.05 (17-27)	3.00 (76)	1.00 (25)	4.0 (102)	40 (1016)	48 (1219)
HVSA-3-503	350-1000	0.95-1.65 (24-42)	3.95 (100)	1.85 (47)	6.0 (152)	52 (1321)	60 (1524)

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number. Selections are based on 100%-insulated cables, manufactured in accordance with ICEA S-66-524 standard and commonly used connectors. Nominal insulation thickness (100%): 110 mils.
- For cables manufactured to other specifications, confirm selection with cable and connector dimensions.
- HVS-SHIM kits are available if the diameter of one of your cables is not within the standard range.
- Kits do not contain connectors; order compression or solder connectors separately.
- Standard package: HVS-500: Three 1/C kits/box, HVS-3-500: One 3/C kit/box, HVSA-3-500: One 3/C kit/box
- For an off-the-shelf 3/C splice alternative, select three appropriate 5 kV single-conductor kits from above and one HVS-3/C accessory kit (unarmored) or one HVSA accessory kit (armored cables)
- For Diesel Locomotive cables (DLO), please ask a TE customer service representative about the HVS-50x-TRACT series.
- Related test report: EDR-5096
- Verify insulation diameter since 5 kV non-shielded and TECK cable diameters are NOT STANDARD

HVS-J In-Line Splice for 1/C Jacketed Concentric Neutral Cables

FEATURES

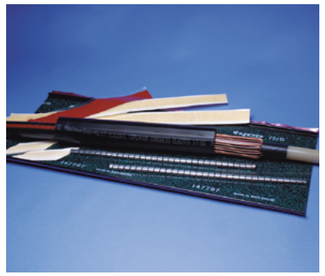
- In addition to the unique internal moisture seal, the SJ/EJ kits feature TE Raychem MBSM wraparound outer jacket which provides mechanical resistance to abrasion and impact, as well as an external moisture seal
- TE Raychem HVS joints have been qualified to IEEE-404

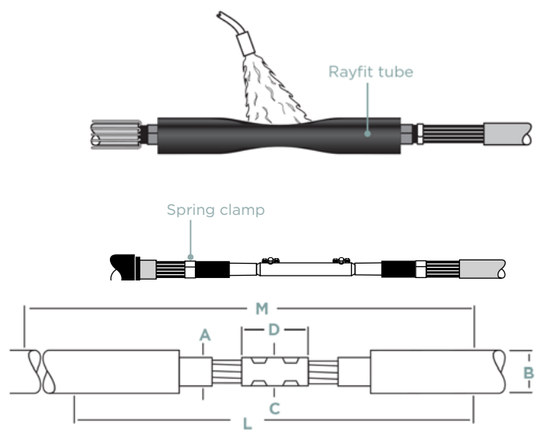
APPLICATIONS

- For 1/C jacketed concentric neutral cables up to 15 kV

BENEFITS

- Provide stress control, rebuild the shielding systems, and restore primary cable insulation to 133% of the cable's original insulation level
- High recovery forces
- Same range as prior HVS-1510S-J
- Range taking Aluminum or Copper shear bolts available





PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Conductor Size (AWG/kcmil)	Min - Max Insulation Dia. (A)	Jacket O.D. (max) (B)	Max Connector O.D. (C)	Max Connector Length (D)	Kit Installed Length (L)	Required Install Space (M)
HVS-C-1510S-J Without Connector							
HVS-C-1511S-J	#2-2/0	0.65-0.95 (17-24)	1.20 (30)	0.80 (20)	4.0 (100)	28 (700)	28 (700)
HVS-C-1512S-J	3/0-400	0.85-1.30 (23-33)	1.65 (42)	1.20 (30)	5.0 (125)	28 (700)	28 (700)
HVS-C-1513S-J	500-750	1.10-1.55 (28-47)	1.90 (48)	1.45 (44)	6.0 (150)	35 (870)	35 (870)
HVS-C-1514S-J	750-1000	1.30-1.90 (33-48)	2.30 (58)	1.85 (47)	8.0 (200)	35 (870)	35 (870)
HVS-C-1510S-J with Copper Mechanical Shear Bolt Connector							
HVS-C-1512S-J-M1	3/0-400	0.85-1.30 (23-33)	1.65 (42)	1.20 (30)	4.0 (100)	28 (700)	28 (700)
HVS-C-1513S-J-M2	500-750	1.10-1.55 (28-47)	1.90 (48)	1.45 (37)	5.0 (125)	35 (870)	35 (870)
M1 = csbs-20C-500C-SOS. M2 = CSBS - 300C-750C-SOS							
HVS-S-1510S-J-with Aluminum Mechanical Shear Bolt Connector							
HVS-S-1512S-J-M4	#2-2/0	0.65-0.95 (17-24)	1.20 (30)	.095 (24)	2.5 (65)	28 (700)	28 (700)
HVS-S-1512S-J-M5	2/0-350	0.79-1.19 (20-30)	1.65 (42)	1.25 (30)	4.0 (100)	28 (700)	28 (700)
HVS-S-1513S-J-M6	350-500	1.04-1.33 (26-34)	1.80 (45)	1.30 (34)	5.0 (125)	35 (870)	35 (870)
HVS-S-1514S-J-M8	500-750	1.16-1.55 (29-39)	1.90 (48)	1.55 (40)	6.0 (150)	35 (870)	35 (870)
HVS-S-1514S-J-M9	750-1000	1.35-1.70 (34-43)	2.30 (58)	1.75 (43)	8.0 (200)	35 (870)	35 (870)
M4 = ASBS-2-3/0, M5 = ASBS-2-350, M6 = ASBS-3/0-500, M8 = ASBS-500-750, M9 = ASBS-600-1000							

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number. All selections are based on the typical dimensions for both 100% and 133% insulated cables.
- Use the insulation OD, and jacket OD range as the final ordering criteria.
- Kits can be installed with either aluminum or copper compression connectors (connectors not included with kit).
- If external grounding is required, order an HVS-EG kit.
- Standard package: 1 kit/box
- Related Test Report: EDR-5440 and EDR-5444.
- For AL Mechanical Shear Bolt connector information request data sheet 9-1773440-4 and for CU request 165972.

HVS-J In-Line Splice for 1/C Jacketed Concentric Neutral Cables

FEATURES

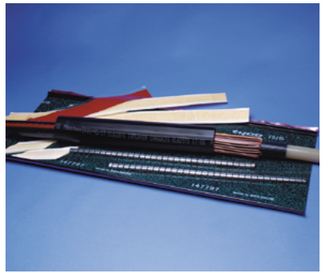
- In addition to the unique internal moisture seal, the SJ/EJ kits feature the MBSM wraparound outer jacket which provides mechanical resistance to abrasion and impact, as well as an external moisture seal
- Meets IEEE-404 standard requirements

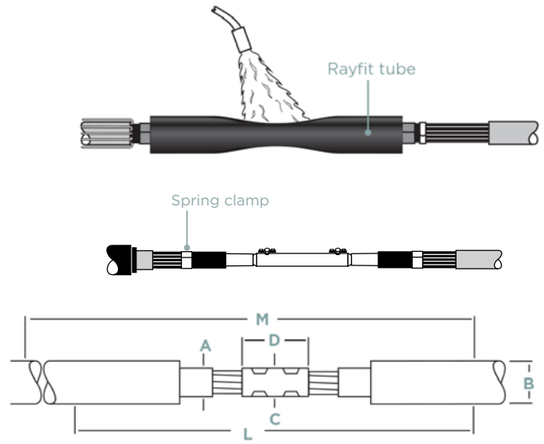
APPLICATIONS

- For 1/C jacketed concentric neutral cables rated 25 and 35 kV

BENEFITS

- Provide stress control, rebuild the shielding systems, and restore primary cable insulation to 133% of the cable's original insulation level
- Same range as prior HVS-1510S-J
- Range taking Aluminum or Copper shear bolts available separately





PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Conductor Size (AWG/kcmil)	Min - Max Insulator Dia. (A)	Jacket O.D. (max) (B)	Max Connector O.D. (C)	Max Connector Length (D)	Kit Installed Length (L)	Required Install Space (M)
HVS-2510E-J (25/28 kV)							
HVS-2511E-J	#1-250	0.90-1.20 (23-30)	1.55 (39)	1.10 (28)	4.0 (102)	40 (1016)	56 (1422)
HVS-2512E-J	350-500	1.20-1.50 (30-38)	1.95 (50)	1.35 (34)	6.0 (152)	48 (1219)	68 (1727)
HVS-2513E-J	750-1000	1.50-1.80 (38-46)	2.40 (61)	1.85 (47)	8.0 (203)	48 (1219)	70 (1778)
HVS-3510S-J (35 kV)							
HVS-3511S-J	1/0-3/0	0.95-1.35 (24-34)	1.55 (39)	1.00 (25)	5.0 (127)	44 (1118)	53 (1346)
HVS-3512S-J	4/0-500	1.20-1.70 (30-43)	2.10 (53)	1.60 (41)	8.0 (203)	48 (1219)	63 (1600)
HVS-3513S-J	600-1000	1.55-2.15 (39-55)	2.80 (71)	1.85 (47)	10.0 (254)	48 (1219)	64 (1626)

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number. All selections are based on the typical dimensions for both 100% and 133%-insulated cables, manufactured in accordance with AEIC standard and commonly used connectors. Nominal insulation thickness (100%): 25 kV: 260 mils., 28 kV: 280 mils., 35 kV: 345 mils. Nominal insulation thickness (133%): 15 kV: 220 mils.
- For cables manufactured to other specifications, confirm election with cable and connector dimensions.
- Kits do not contain connectors; order compression or solder connectors separately.
- If external grounding and/or shield interrupting is required, order an HVS-EG kit.
- Standard package: 1 kit/box.
- Related test reports: 15 kV: 25 kV: EDR-5150, 28 kV: EDR-5318, 35 kV: EDR-5157.

HVS-C-RJ In-Line Heat Shrinkable Repair Splices

FEATURES

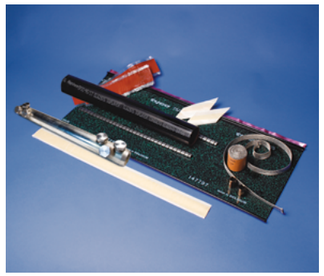
- One kit replaces two conventional splices for most repairs
- Splice includes extra long tin plated aluminum shear bolt connector
- Each kit contains all of the components required for the complete joint assembly
- TE Raychem HVS joints have been qualified IEEE-404

APPLICATIONS

- For use with either Copper Tape Shield or Jacketed Concentric Neutral cables

BENEFITS

- This series of splices utilizes the new triple-extrusion Rayfit splice sleeve which provides high recovery forces resulting in superior interfacial pressure, reduced shrink and installation time, and a slimmer space-saving profile



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Conductor Size (AWG/kcmil)	Jacket O.D. (Max)	Min - Mas Insulation Dia.	Connector Length	Connector Diameter	Kit Installed Length	Required Install Length
For Jacketed Concentric Neutral and Unjacketed Concentric Neutral Cables (-10 Series)							
HVS-C-1510S-RJ-MX (15 kV)							
HVS-C-1512S-RJ-M4	#2-2/0	1.20 (30)	.65-.95 (17-24)	17.3 (440)	0.95 (24)	48.0 (1200)	72.0 (1828)
HVS-C-1512S-RJ-M5	2/0-350	1.65 (42)	.79-1.19 (20-30)	17.3 (440)	1.29 (33)	48.0 (1200)	73.0 (1854)
HVS-C-1513S-RJ-M7	350-500	1.80 (45)	1.04-1.33 (26-34)	17.3 (440)	1.45 (37)	48.0 (1200)	74.0 (1879)
HVS-C-1514S-RJ-M8	500-750	1.90 (48)	1.16-1.55 (29-39)	17.3 (440)	1.66 (42)	48.0 (1200)	76.0 (1930)
HVS-C-1514S-RJ-M9	750-1000	2.30 (58)	1.35-1.70 (34-43)	17.3 (440)	1.81 (46)	48.0 (1200)	76.0 (1930)
M4 = BSM-25/95-U-L440, M5 = BSM-95/240-U-L440, M7 = BSMU-120/300-L440, M8 = BSM-185/400-U-L440, M9 = BSMU-500-L440							
HVS-C-2510S-RJ-MX (25 kV)							
HVS-C-2511S-RJ-M4	#2-3/0	1.65 (42)	.90-1.20 (23-30)	17.3 (440)	0.95 (24)	48.0 (1200)	72.0 (1828)
HVS-C-2512S-RJ-M5	4/0-350	2.15 (55)	1.03-1.50 (26-38)	17.3 (440)	1.29 (33)	48.0 (1200)	73.0 (1854)
HVS-C-2513S-RJ-M8	500-750	2.36 (60)	1.30-1.70 (34-43)	17.3 (440)	1.66 (42)	48.0 (1200)	76.0 (1930)
HVS-C-2514S-RJ-M9	1000	2.60 (65)	1.70-1.90 (43-49)	17.3 (440)	1.81 (46)	48.0 (1200)	76.0 (1930)
M4 = BSM-25/95-U-L440, M5 = BSM-95/240-U-L440, M8 = BSM-185/400-U-L440, M9 = BSMU-500-L440							
For Copper Tape Shield, Wire Shield, UniShield and Lead Sheath Cables (-20 Series)							
HVS-C-1520S-RJ-MX (15 kV)							
HVS-C-1522S-RJ-M4	#2-2/0	1.20 (30)	.65-.95 (17-24)	17.3 (440)	0.95 (24)	40.0 (1000)	69.0 (1752)
HVS-C-1522S-RJ-M5	2/0-350	1.65 (42)	.79-1.19 (20-30)	17.3 (440)	1.29 (33)	40.0 (1000)	69.0 (1752)
HVS-C-1523S-RJ-M7	350-500	1.80 (45)	1.04-1.33 (26-34)	17.3 (440)	1.45 (37)	44.0 (1100)	71.0 (1803)
HVS-C-1524S-RJ-M8	500-750	1.90 (48)	1.16-1.55 (29-39)	17.3 (440)	1.66 (42)	44.0 (1100)	71.0 (1803)
HVS-C-1524S-RJ-M9	750-1000	2.30 (58)	1.35-1.70 (34-43)	17.3 (440)	1.81 (46)	44.0 (1100)	71.0 (1803)
M4 = BSM-25/95-U-L440, M5 = BSM-95/240-U-L440, M7 M8 = BSM-185/400-U-L440, M9 = BSMU-500-L440							
HVS-C-2520S-RJ-MX (25 kV)							
HVS-C-2521S-RJ-M4	#2-3/0	1.65 (42)	.90-1.20 (23-30)	17.3 (440)	0.95 (24)	48.0 (1200)	72.0 (1828)
HVS-C-2522S-RJ-M5	4/0-350	2.15 (55)	1.03-1.50 (26-38)	17.3 (440)	1.29 (33)	48.0 (1200)	73.0 (1854)
HVS-C-2523S-RJ-M8	500-750	2.36 (60)	1.30-1.70 (34-43)	17.3 (440)	1.66 (42)	48.0 (1200)	76.0 (1930)
HVS-C-2524S-RJ-M9	1000	2.60 (65)	1.70-1.90 (43-49)	17.3 (440)	1.81 (46)	48.0 (1200)	76.0 (1930)
M4 = BSM-25/95-U-L440, M5 = BSM-95/240-U-L440, M8 = BSM-185/400-U-L440, M9 = BSMU-500-L440							

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number. All selections are based on the typical dimensions for both 100 and 133% insulated cables, nominal insulation thickness 0.175-0.220.
- Use the insulation OD, and jacket OD range as the final ordering criteria.
- Standard package: 1 kit/box
- Related Test Report: EDR-5440, EDR-5444, EDR-5473, and IEEE 404 for 105°C of Splice and Terminations.
- For AL Mechanical shear bolt connector information request data sheet.

HVS-C-1520S In-Line Splice for 1/C Shielded Cable (15 kV)

FEATURES

- Reduced shrink time
- Improved heat transfer
- Significantly increased recovery forces
- Reduced overall diameters and length
- Optional copper shear bolt connector available
- Meets IEEE-404 standard requirements.

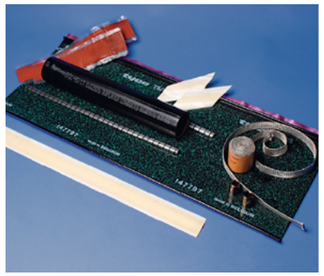
APPLICATIONS

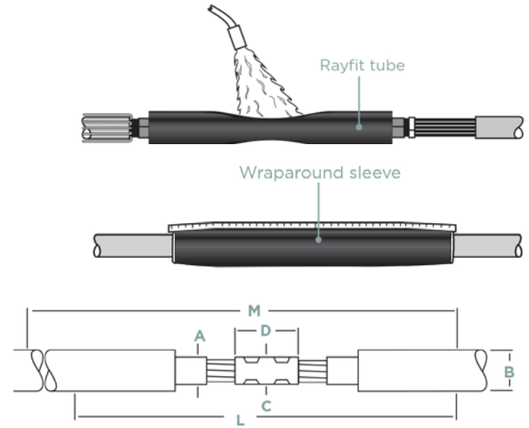
- FOR 1/C shielded cables up to 15 kV

BENEFITS

- Feature a triple extrusion tube which provides increased recovery forces, reduced shrinking time and improved profile conformity

HVS-C-1520S





PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Conductor Size (AWG/kcmil)	Min - Max Insulator Dia. (A)	Jacket O.D. (max) (B)	Max Connector O.D. (C)	Max Connector Length (D)	Kit Installed Length (L)	Required Install Space (M)
HVS-C-1520S Splice for Compression Connector (not included)							
HVS-C-1521S	#2-2/0	0.65-0.95 (17-24)	1.20 (30)	0.80 (20)	4.0 (100)	28 (700)	28 (700)
HVS-C-1522S	3/0-400	0.85-1.30 (23-33)	1.65 (42)	1.20 (30)	5.0 (125)	28 (700)	28 (700)
HVS-C-1523S	500-750	1.10-1.55 (28-47)	1.90 (48)	1.45 (44)	6.0 (150)	35 (870)	35 (870)
HVS-C-1524S	750-1000	1.30-1.90 (33-48)	2.30 (58)	1.85 (47)	8.0 (200)	35 (870)	35 (870)
HVS-C-1520S with Copper Shear Bolt (connector included)							
HVS-C-1522S-M1	3/0-400	0.85-1.30 (23-33)	1.65 (30)	1.20 (30)	4.0 (100)	28 (700)	28 (700)
HVS-C-1523S-M2	500-750	1.10-1.55 (28-47)	1.90 (47)	1.45 (37)	5.0 (125)	35 (870)	35 (870)
M1 = CSBS-20C-500C-SOS, M2 = CSBS-300C-750C-SOS							

NOTE: only the above two kits are available with connectors.

ADDITIONAL PRODUCT INFORMATION

• Select the appropriate catalog number. All selections are based on the typical dimensions for both 100% and 133% insulated cables, nominal insulation thickness 0.175-0.220".
• Use the insulation OD, and jacket OD range as the final ordering criteria.
• Kits can be installed with either aluminum or copper compression connectors (connectors not included with kit).
• If external grounding, order an HVS-EG kit.
• Standard package: 1 kit/box
• Related test reports: EDR-5440 for HVS-C, IEEE 404 and IEEE-48 for 105˚C of Splice and Terminations.
• For CU Mechanical shear bolt connector information request data sheet 165972.

HVS-S-1520S In-Line Splice for 1/C Shielded Cables (15 kV)

FEATURES

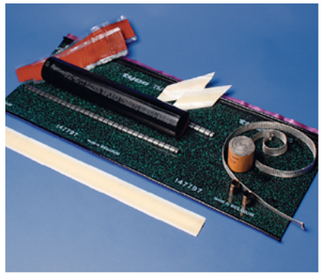
- Reduced shrink time
- Improved heat transfer
- Significantly increased recovery forces
- Reduced overall diameters and length
- Tin plated aluminum shear bolt Connector (CU/AL)
- Meets IEEE-404 standard requirements.

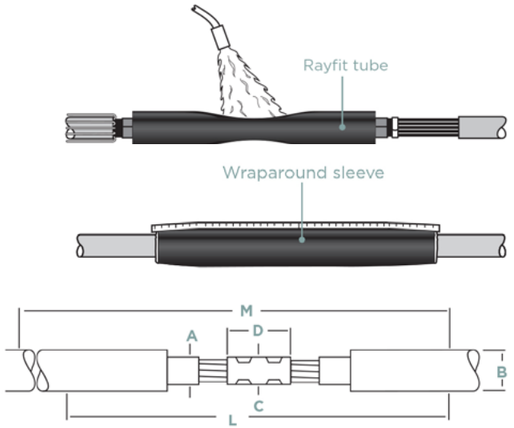
APPLICATIONS

- For 1/C Metallic Tape, Wire Shield, UniShield, or Lead Sheath Cables up to 15 kV

BENEFITS

- Feature a triple extrusion tube which provides increased recovery forces, reduced shrinking time and improved profile conformity





PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Conductor Size (AWG/kcmil)	Min - Max Insulator Dia. (A)	Jacket O.D. (max) (B)	Max Connector O.D. (C)	Max Connector Length (D)	Kit Installed Length (L)	Required Install Space (M)
HVS-S-1520S splice with Al Shear Bolt Connector							
HVS-S-1522S-M4	#2-2/0	0.65-0.95 (17-24)	1.20 (30)	0.95 (24)	2.5 (65)	28 (700)	28 (700)
HVS-S-1522S-M5	2/0-350	0.79-1.19 (20-30)	1.65 (42)	1.25 (30)	4.0 (100)	28 (700)	28 (700)
HVS-S-1523S-M6	350-500	1.04-1.33 (26-34)	1.80 (45)	1.30 (34)	5.0 (125)	35 (870)	35 (870)
HVS-S-1524S-M8	500-750	1.16-1.55 (29-39)	1.90 (48)	1.55 (40)	6.0 (150)	35 (870)	35 (870)
HVS-S-1524S-M9	750-1000	1.35-1.70 (34-43)	2.30 (58)	1.75 (43)	8.0 (200)	35 (870)	35 (870)
M4 = ASBS-2-3/0, M5 - ASBS-2-350, M6 = ASBS-3/0-500, M8 = ASBS-500-750, M9 = ASBS-600-1000							

Catalog Number	Min - Max Insulation Diameter	Moisture-Blocked Braid Length	Braid Size (AWG)
HVS-EG-3-1	0.30-1.25 (8-32)	36 (914)	#8
HVS-EG-3-2	1.00-2.15 (25-55)	36 (914)	#6
HVS-EG-3-3	1.55-3.40 (39-86)	36 (914)	#4

ADDITIONAL PRODUCT INFORMATION

• Select the appropriate catalog number. All selections are based on the typical dimensions for both 100% and 133% insulated cables, nominal insulation thickness 0.175-0.220".
• Use the insulation O.D. and jacket O.D. range as the final ordering criteria.
• Kits contain Tin-plated Aluminum shear bolt connector for use with either CU or AL conductors.
• If external grounding, order an HVS-EG kit.
• Standard package: 1 kit/box
• Related Test Report: EDR-5440 for HVS-C
• For AL Mechanical shear bolt connector information request data sheet 9-1773440-4.

HVS In-Line Splices for 1/C Shielded Cable (5-35 kV)

FEATURES

- Kits contain a solderless grounding kit, consisting of a ground clamp, a ground braid, and a shielding mesh
- Heat shrink feature allows the kits to accommodate out-of-round, out-of-spec cable
- Some kits contain tube for outer layer
- Meets IEEE-404 standard requirements

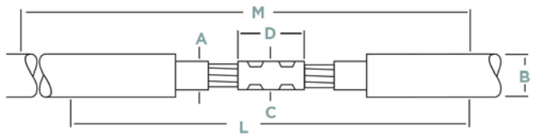
APPLICATIONS

- For 1/C Shielded cables from 5-35 kV
- For use on copper tape, wire shield, lead sheath, and UniShield cables

BENEFITS

- Pre-engineered to offer a compact, low-profile installation with a minimum diameter buildup





PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Conductor Size (AWG/kcmil)		Min - Max Insulator Dia. (A)	Jacket O.D. (max) (B)	Max Connector O.D. (C)	Max Connector Length (D)	Kit Installed Length (L)	Required Install Space (M)
HVS-820S	(5 kV)	(5/8 kV)						
HVS-821S	#6-2/0	#6-#2	0.35-0.65 (9-17)	0.80 (20)	0.50 (13)	3.0 (76)	24 (610)	44 (1118)
HVS-822S	3/0-300	#1-4/0	0.55-0.90 (14-23)	1.15 (29)	0.75 (19)	4.25 (108)	24 (610)	45 (1143)
HVS-823S	350-750	250-350	0.80-1.25 (20-32)	1.80 (46)	1.10 (28)	6.0 (152)	27 (686)	50 (1270)
HVS-824S	1000-1500	500-750	1.00-1.60 (25-41)	2.30 (58)	1.45 (37)	8.0 (203)	30 (762)	56 (1422)
HVS-825S		750-1000	1.30-2.25 (33-57)	2.45 (62)	1.85 (47)	8.0 (203)	30 (762)	56 (1422)
HVS-1520S		(15 kV)						
HVS-1521S		#2-4/0	0.65-1.05 (17-27)	1.25 (32)	0.90 (23)	4.25 (108)	27 (686)	54 (1372)
HVS-1522S		250-350	0.90-1.30 (23-33)	1.50 (38)	1.20 (30)	5.5 (140)	28 (711)	56 (1422)
HVS-1523S		500-750	1.10-1.60 (28-41)	1.85 (47)	1.60 (41)	8.0 (203)	30 (762)	59 (1499)
HVS-1524S		750-1000	1.25-1.80 (32-46)	2.10 (53)	1.85 (47)	8.0 (203)	34 (864)	67 (1702)
HVS-1525S		1250-2000	1.60-2.50 (41-64)	2.80 (71)	2.40 (61)	8.0 (203)	40 (1016)	74 (1880)
HVS-1520S-W (15 kV with Wraparound Rejacketing Sleeve)								
HVS-1521S-W		#2-4/0	0.65-1.05 (17-27)	1.25 (32)	0.90 (23)	4.25 (108)	28 (711)	39 (990)
HVS-1522S-W		250-350	0.90-1.30 (23-33)	1.50 (38)	1.20 (30)	5.50 (140)	28 (711)	40 (1016)
HVS-1523S-W		500-750	1.10-1.60 (28-41)	1.85 (47)	1.60 (41)	8.00 (203)	30 (762)	45 (1143)
HVS-1524S-W		750-1000	1.25-1.80 (32-46)	2.10 (53)	1.85 (47)	8.00 (203)	34 (864)	49 (1244)
HVS-1525S-W		1250-2000	1.60-2.50 (41-64)	2.80 (71)	2.40 (61)	11.00 (279)	40 (1016)	54 (1371)
HVS-2520S		(25 kV)						
HVS-2521S		#1-250	0.90-1.20 (23-31)	1.50 (38)	1.10 (28)	4.0 (102)	40 (1016)	40 (1016)
HVS-2522S		350-500	1.20-1.50 (31-38)	1.95 (50)	1.35 (34)	6.0 (152)	40 (1016)	40 (1016)
HVS-2523S		750-1000	1.50-1.80 (38-46)	2.40 (61)	1.85 (47)	8.0 (203)	40 (1016)	40 (1016)
HVS-3520S		(35 kV)						
HVS-3521S		1/0-3/0	0.95-1.35 (24-34)	1.55 (39)	1.20 (30)	4.0 (102)	40 (1016)	53 (1346)
HVS-3522S		4/0-600	1.20-1.70 (31-43)	2.10 (53)	1.50 (38)	6.0 (152)	44 (1118)	62 (1575)
HVS-3523S		600-1000	1.55-2.15 (39-55)	2.80 (71)	1.85 (47)	10.0 (254)	44 (1118)	67 (1702)
HVS-3524S		1250-2000	2.1-2.63 (53-66)	3.0 (76)	2.6 (66)	10 (254)	44 (1118)	45 (1145)

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number. All selections are based on the typical dimensions of 100% insulated cables, manufactured in accordance with AEIC standard. Nominal insulation thickness (100%): 5 kV: 90 mils., 5/8 kV: 115 mils., 15 kV: 175 mils., 25 kV: 260 mils., 35 kV: 345 mils. Nominal insulation thickness (133%): 15 kV: 220 mils. Check the jacket O.D. on the 15 kV, 133%-insulated 4/0 and 750-kcmil cables to ensure they fall within the use range specified. If you have any questions, contact your TE sales engineer or representative.
- For cables manufactured to other specifications, confirm selection with cable and connector dimensions.
- HVS-SHIM kits are available if the diameter of one of your cables is not within the standard range.
- Kits do not contain connectors; order compression or solder-connectors separately. Standard package: 1 kit/box
- If external grounding is required, order an HVS-EG kit.
- Related test reports: HVS 5-8 kV: EDR-5181. HVS 15 kV: EDR-5114, HVS 25 kV: EDR-5150, HVS 25-35 kV: EDR-5197, HVS-1520S-W: EDR-5225

HVS-C-1530S 1/C LC Shielded and Flat Strap Cables (15 kV)

FEATURES

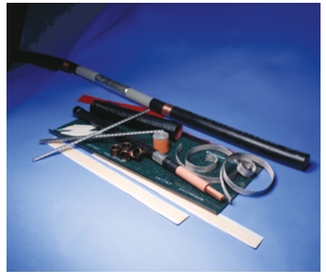
- Designed to withstand fault current duty of 10-kA rms for 100 cycles
- Ground connections are made using heavy duty stainless steel spring clamps and tinned copper braid
- The ground connections have been tested to multiple reclosed faults in excess of 13-kA rms without damage
- Meets IEEE-404 standard requirements

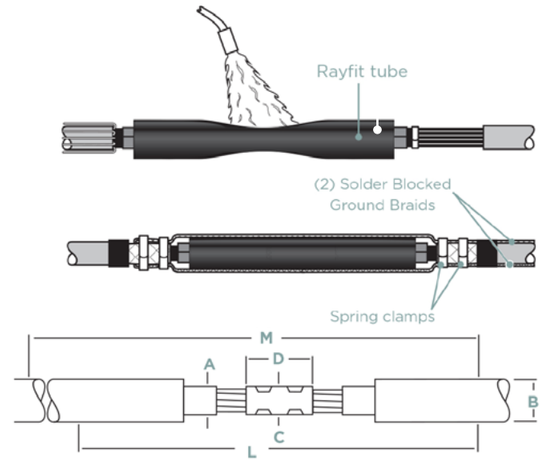
APPLICATIONS

- For Longitudinally Corrugated (LC) Shield or Flat Strap Nuetral (FS)

BENEFITS

- Feature a metal laminated wraparound rejacketing sleeve that reduces moisture-vapor transmission
- This tough sleeve also protects the splice from coincidental abrasion, back fill and handling damage





PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Conductor Size (AWG/kcmil)	Min - Max Insulator Dia. (A)	Jacket O.D. (max) (B)	Max Connector O.D. (C)	Max Connector Length (D)	Kit Installed Length (L)	Required Install Space (M)
HVS-C-1530S without Connector							
HVS-C-1531S	#2-2/0	0.65-0.95 (17-24)	1.20 (30)	0.80 (20)	4.0 (100)	28 (700)	28 (700)
HVS-C-1532S	3/0-400	0.85-1.30 (23-33)	1.65 (42)	1.20 (30)	5.0 (140)	28 (700)	28 (700)
HVS-C-1533S	500-750	1.10-1.55 (28-39)	1.90 (48)	1.45 (37)	6.0 (150)	35 (870)	35 (870)
HVS-C-1534S	750-1000	1.30-1.90 (33-48)	2.30 (58)	1.85 (47)	8.0 (200)	35 (870)	35 (870)
HVS-C-1530S with Copper Mechanical Shear Bolt Connector							
HVS-C-1532S-M1	3/0-400	0.85 - 1.30 (23-33)	1.20 (30)	1.20 (30)	4.0 (100)	28 (700)	28 (700)
HVS-C-1533S-M2	500-750	1.10-1.55 (28-47)	1.45 (37)	1.45 (37)	5.5 (140)	35 (870)	35 (870)
M1 = CSBS-20C-500C-SOS, M2 = CSBS-300C-750C-SOS							
HVS-S-1530S with Aluminum Mechanical Shear Bolt Connector							
HVS-S-1531S-M4	#2-2/0	0.65-0.95 (17-24)	1.20 (30)	0.95 (24)	2.5 (65)	28 (700)	28 (700)
HVS-S-1532S-M5	2/0-350	0.79-1.19 (20-30)	1.65 (42)	1.25 (30)	4.0 (100)	28 (700)	28 (700)
HVS-S-1533S-M6	350-500	1.04-1.33 (26-34)	1.80 (45)	1.30 (34)	5.5 (140)	35 (870)	35 (870)
HVS-S-1534S-M8	500-750	1.16-1.55 (29-39)	1.90 (48)	1.55 (40)	6.0 (150)	35 (870)	35 (870)
HVS-S-1534S-M9	750-1000	1.35-1.70 (34-43)	2.30 (58)	1.75 (43)	8.0 (200)	35 (870)	35 (870)
M4 = ASBS-2-3/0, M5 = ASBS-2-350, M6 = ASBS-3/0-500, M8 = ASBS-500-750, M9 = ASBS-600-1000							

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number. All selections are based on the typical dimensions for both 100% and 133% insulated cables, nominal insulation thickness 0.175-0.220 inch.
- Use the insulation O.D. and jacket O.D. range as the final ordering criteria.
- Kits can be installed with either aluminum or copper compression connectors (connectors not included with kit).
- Kits are supplied with solder blocked ground braids, and a standard package: 1 kit/box
- Related Test Report: EDR-5440 and EDR-5444, IEEE 404-2006 and IEEE 48 draft 2006 for 105˚C of Splice and Terminations.
- For AL Mechanical shear bolt connector information request data sheet 9-1773440-4 and for CU request 165972.

HVS-LC Splice Kits for 1/C LC and Flat Strap Shield Cable (25-35 kV)

FEATURES

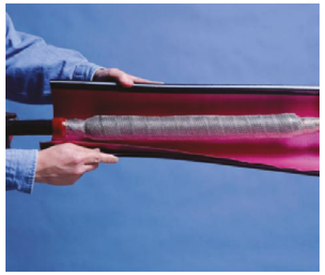
- Designed to withstand fault current duty of 10-kA rms for 10 cycles
- Ground connections are made using heavy duty stainless steel spring clamps and tinned copper braid
- The ground connections have been tested to multiple reclosed faults in excess of 13-kA rms without damage
- Meets IEEE-404 standard requirements

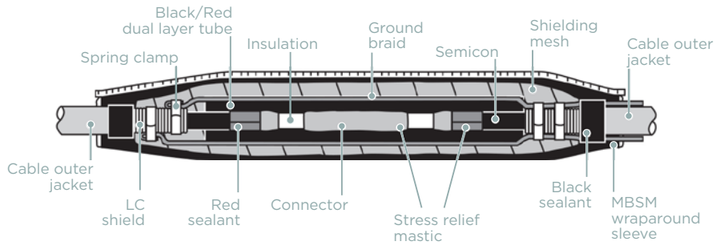
APPLICATIONS

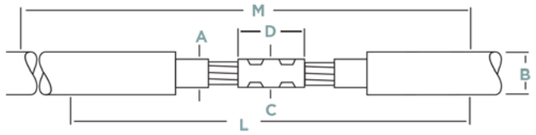
- For Longitudinally Corrugated (LC) Shield or Flat Strap Nuetral (FS)

BENEFITS

- Feature a metal laminated wraparound rejacketing sleeve that reduces moisture-vapor transmission
- This tough sleeve also protects the splice from coincidental abrasion, back fill and handling damage







PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Conductor Size (AWG/kcmil)	Min - Max Insulator Dia. (A)	Jacket O.D. (max) (B)	Max Connector O.D. (C)	Max Connector Length (D)	Kit Installed Length (L)	Required Install Space (M)
HVS-2530-LC	(25 kV)						
HVS-2531-LC	#1-250	0.90-1.20 (22-30)	1.55 (39)	1.10 (28)	4.0 (102)	36 (914)	48 (1219)
HVS-2532-LC	350-500	1.20-1.50 (30-38)	1.95 (50)	1.35 (34)	6.0 (152)	37 (940)	50 (1270)
HVS-2533-LC	750-1000	1.50-1.80 (38-46)	2.40 (61)	1.85 (47)	8.0 (203)	39 (991)	54 (1372)
HVS-3530-LC	(35 kV)						
HVS-3531-LC	1/0-3/0	0.95-1.35 (24-34)	1.55 (39)	1.00 (25)	4.0 (102)	40 (1016)	52 (1321)
HVS-3532-LC	4/0-500	1.30-1.70 (33-43)	2.10 (53)	1.60 (41)	5.5 (140)	40 (1016)	58 (1473)
HVS-3533-LC	750-1000	1.65-2.15 (42-55)	2.80 (71)	1.85 (47)	8.0 (203)	48 (1219)	64 (1626)

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number. All selections are based on the typical dimensions of 100% and 133% insulated cables, manufactured in accordance with AEIC standard and commonly used connectors. Nominal insulation thickness (100%): 15 kV: 175 mils. 25 kV: 260 mils. 35 kV: 345 mils. Nominal insulation thickness (133%): 15 kV: 220 mils.
- For cables manufactured to other specifications, confirm selection with cable and connector dimensions.
- Kits do not contain connectors; order compression or solder connectors separately.
- HVS kits are supplied with two pieces of braid to provide fault current carrying capacity over the splice. User should verify compatibility of supplied braids to application on LC shield cable.
- Standard package: 1 kit/box
- Related test reports: 25 kV: EDR-5150, 35 kV: EDR-5157

TECK Splices for TECK Cable (1000 V-15 kV)

FEATURES

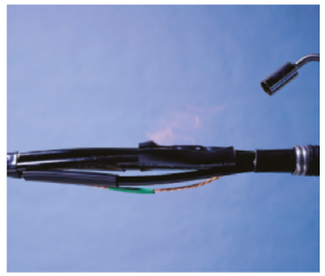
- Positive environmental sealing
- Complete grounding and bonding
- Fast, easy installation
- Slim profile
- CSA certified to C22.2, No. 198.2
- Meets IEEE-404 standard requirements

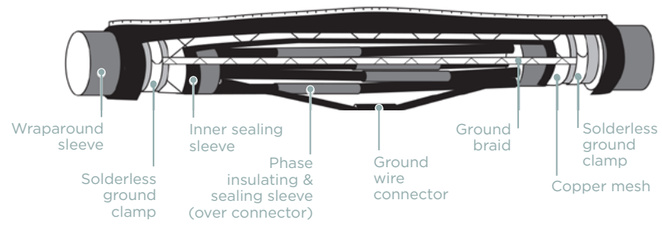
APPLICATIONS

- Designed specifically for TECK power cable, TE Raychem TECK splice kits are easy to install and are ideal for underground and cable tray applications
- For use on 1/C and 4/C 1000-V TECK cable and 3/C 5 kV TECK cable

BENEFITS

- The splice is protected from moisture and mechanical damage by two layers of adhesive-lined WCSM heavy-wall tubing and one layer of CRSM wraparound sleeve





PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Nominal Cable Range	Min - Max Insulation Dia.	Inner Jacket Dia. Range	Outer Jacket Dia. Range	Maximum Connector Length	Splice Installed Length
Low-Voltage 1/C						
TECK-10	#6-#1 AWG	0.30-0.50 (10-15)	0.40-0.80 (10-20)	0.70-1.10 (20-30)	2.0 (50)	22 (560)
TECK-11	1/0-3/0 AWG	0.45-0.70 (10-20)	0.65-0.90 (15-25)	1.00-1.15 (25-30)	3.5 (90)	22 (560)
TECK-12	4/0-350 MCM	0.60-0.90 (15-25)	0.80-1.10 (20-30)	1.10-1.45 (30-35)	5.0 (125)	25 (635)
TECK-13	400-750 MCM	0.80-1.20 (20-30)	1.10-1.50 (30-40)	1.40-1.80 (35-45)	7.5 (190)	29 (735)
TECK-14	1000-2000 MCM	1.20-2.10 (30-55)	1.50-20.40 (40-60)	1.90-2.80 (50-70)	8.0 (205)	40 (1015)
Low-Voltage 4/C						
TECK-41	#14-#4		0.50-1.20 (15-30)	0.70-1.45 (20-35)	2.0 (50)	25 (650)
TECK-42	#2-3/0		1.00-1.70 (25-45)	1.30-2.10 (35-55)	3.0 (75)	25 (650)
TECK-43	4/0-400		1.50-2.50 (40-65)	2.00-3.00 (50-70)	4.0 (100)	40 (1015)
TECK-44	500-1000		2.00-3.50 (50-90)	2.50-4.00 (65-100)	6.5 (165)	40 (1015)
5 kV Unshielded 3/C						
TECK-531	#2-4/0	0.40-0.75 (10-20)	1.20-2.00 (30-50)	1.50-2.40 (40-60)	3.5 (90)	40 (1015)
TECK-532	250-750	0.65-1.20 (15-30)	1.80-3.00 (45-75)	2.20-3.25 (55-85)	6.0 (150)	48 (1220)
15 kV Shielded 3/C						
HVSA-3-1521S-TECK	#2-4/0 AWG	0.65-1.05 (17-27)	1.75-4.5 (45-115)	2.50-6.5 (65-165)	4.25 (105)	72 (1830)
HVSA-3-1522S-TECK	250-350 kcmil	0.90-1.30 (23-33)	2.50-6.0 (65-150)	2.50-6.5 (65-165)	5.5 (140)	80 (2030)
HVSA-3-1523S-TECK	500-750 kcmil	1.10-1.60 (28-41)	2.50-6.0 (65-150)	2.50-6.5 (65-165)	8.0 (200)	80 (2030)
HVSA-3-1524S-TECK	750-1000 kcmil	1.25-1.80 (32-46)	2.50-6.0 (65-150)	2.50-6.5 (65-165)	8.0 (200)	80 (2030)

ADDITIONAL PRODCUT INFORMATION

- Select the appropriate catalog number based on cable size. Confirm selection with dimensions to assure proper sizing.
- Kits do not contain connectors or lugs and should be ordered separately. Installed connector or lug diameter must be within use range.
- CSA certification applies only to applications up to 1000 volts.
- Standard package: 1 kit/box
- Related test report: 1000 volts: EDR-5194

HVS-SHIM Heat Shrinkable Shim Kits (5-35 kV)

APPLICATIONS

- Use TE Raychem HVS-SHIM kit to increase the insulation diameter of a polymeric cable, allowing it to fit in the use range of a standard splice kit. For use on copper tape, LC shield, wire shield, lead sheath, UniShield, and jacketed/unjacketed concentric neutral cables



SELECTING THE APPROPRIATE SHIM KIT:

1. Verify that the insulation diameters of the two cables to be spliced do not fall within the insulation range of any standard splice kit.
2. Select the splice kit that fits the larger of the two cables within the kit's insulation-diameter use range. If the larger cable fits in more than one kit, choose the smaller kit.
3. Determine the minimum cable insulation diameter for the kit and find that value in the first column below. Example: An HVS-1523S kit has a cable insulation range of 1.10-1.60 inches. Therefore, the minimum cable insulation diameter for this kit is 1.10 inches.
4. In the second column, find the insulation diameter range in which the smaller cable falls. Note: If the smaller cable does not fit within any of the specified ranges in the second column, a standard shim cannot be used for your application. Contact your local TE representative for more information.
5. In the third column, find the correct HVS-SHIM kit to order.

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Minimum Cable Insulation Diameter	Smaller Cable Insulation Diameter Range
HVS-SHIM-1	0.80 (20)	0.60-0.80 (15-20)
HVS-SHIM-1	0.85 (22)	0.65-0.85 (17-22)
HVS-SHIM-1	0.90 (23)	0.70-0.90 (18-23)
HVS-SHIM-1	0.95 (24)	0.80-0.95 (20-24)
HVS-SHIM-1	1.00 (25)	0.85-1.00 (22-25)
HVS-SHIM-1	1.05 (27)	0.90-1.05 (23-27)
HVS-SHIM-2		0.70-0.90 (18-23)
HVS-SHIM-3	1.10 (28)	0.90-1.10 (23-28)
HVS-SHIM-4		0.70-0.90 (18-23)
HVS-SHIM-3	1.15 (29)	0.95-1.15 (24-29)
HVS-SHIM-4		0.80-0.95 (20-24)
HVS-SHIM-3	1.20 (30)	1.00-1.20 (25-30)
HVS-SHIM-4		0.85-1.00 (22-25)
HVS-SHIM-3	1.25 (32)	1.10-1.25 (28-32)
HVS-SHIM-4		0.95-1.10 (24-28)
HVS-SHIM-3	1.30 (33)	1.15-1.30 (29-33)
HVS-SHIM-4		1.00-1.15 (25-29)
HVS-SHIM-3	1.35 (34)	1.20-1.35 (30-34)
HVS-SHIM-5		1.00-1.20 (25-30)
HVS-SHIM-3	1.40 (36)	1.25-1.40 (32-36)
HVS-SHIM-5		1.05-1.25 (27-32)
HVS-SHIM-3	1.45 (37)	1.30-1.45 (33-37)
HVS-SHIM-5		1.15-1.30 (29-33)
HVS-SHIM-3	1.50 (38)	1.35-1.50 (34-38)
HVS-SHIM-5		1.20-1.35 (30-34)
HVS-SHIM-6	1.55 (39)	1.35-1.55 (34-39)
HVS-SHIM-6	1.60 (41)	1.40-1.60 (36-41)
HVS-SHIM-6	1.65 (42)	1.45-1.65 (37-42)
HVS-SHIM-6	1.70 (43)	1.50-1.70 (38-43)
HVS-SHIM-6	1.75 (44)	1.55-1.75 (39-44)
HVS-SHIM-6	1.80 (46)	1.60-1.80 (41-46)

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate shim kit catalog number based on actual cable dimensions and TE's splice kit use range.
- TE's splice kit and shim kits are sold separately.
- Shim kits do not contain connectors. Order a size-reducing connector separately.
- Contact your local TE sales engineer or representative for cable sizes not listed in the selection table.
- Standard package: 1 kit/box

HVS-3 In-Line Splices for 3/C Shielded Cable (5-25 kV)

FEATURES

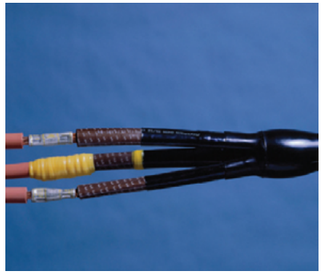
- CRSM wraparound jacket included with each splice
- Meets IEEE-404 standard requirements

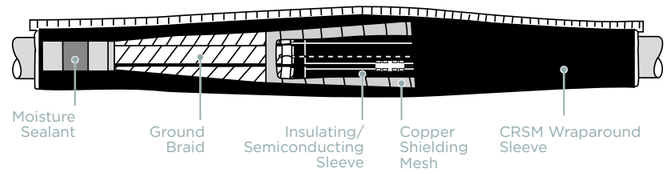
APPLICATIONS

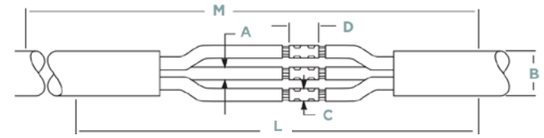
- For use on copper tape, wire shield, lead sheath, and UniShield cables

BENEFITS

- The three conductor cable splice kits are designed to rebuild all layers of the cable. These kits meet the same performance criteria as our single conductor splice kits







PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Conductor Size (AWG/kcmil)		Min - Max Insulation Dia. (A)	Jacket O.D. (min) (B)	Max Connector O.D. (C)	Max Connector Length (D)	Kit Installed Length (L)	Required Installation Space (M)
HVS-3-820S	(5 kV)	(8 kV)						
HVS-3-821S	#6-2/0*	#6-#2	0.35-0.65 (9-17)	0.90 (23)	0.50 (13)	3.0 (76)	40 (1016)	50 (1270)
HVS-3-822S	3/0-300*	#1-4/0	0.55-0.90 (14-23)	1.30 (33)	0.75 (19)	4.25 (108)	48 (1219)	58 (1473)
HVS-3-823S	350-750*	250-350	0.80-1.25 (20-32)	1.30 (33)	1.10 (28)	6.0 (152)	48 (1219)	58 (1473)
HVS-3-824S	1000-1500*	500-750	1.00-1.60 (25-41)	1.55 (39)	1.45 (37)	8.0 (203)	59 (1499)	69 (1753)
HVS-3-825S		750-1000	1.30-2.25 (33-57)	1.55 (39)	1.85 (47)	8.0 (203)	59 (1499)	69 (1753)
HVS-3-1520S		(15 kV)						
HVS-3-1521S		#2-4/0	0.65-1.05 (17-27)	1.30 (33)	0.90 (23)	4.25 (108)	59 (1499)	69 (1753)
HVS-3-1522S		250-350	0.90-1.30 (23-33)	1.55 (39)	1.15 (29)	5.5 (140)	59 (1499)	69 (1753)
HVS-3-1523S		500-750	1.10-1.60 (28-41)	1.55 (39)	1.60 (41)	8.0 (203)	67 (1702)	77 (1956)
HVS-3-1524S		750-1000	1.25-1.80 (32-46)	2.40 (61)	1.85 (47)	8.0 (203)	67 (1702)	77 (1956)
HVS-3-2520S		(25 kV)						
HVS-3-2521S		#1-250	0.90-1.20 (23-31)	1.65 (42)	1.10 (28)	4.0 (102)	59 (1499)	69 (1753)
HVS-3-2522S		350-500	1.20-1.50 (31-38)	1.65 (42)	1.35 (34)	6.0 (152)	67 (1702)	77 (1956)
HVS-3-2523S		750-1000	1.50-1.80 (38-46)	2.50 (64)	1.85 (47)	8.0 (203)	72 (1829)	82 (2032)

ADDITIONAL PRODUCT INFORMATION

- * Select the appropriate catalog number. All selections are based on the typical dimensions of 100% insulated cables and commonly used connectors, manufactured in accordance with AEIC standard. Nominal insulation thickness (100%): 5 kV: 90 mils.8 kV: 115 mils., 15 kV: 175 mils., 25 kV: 260 mils. Nominal insulation thickness (133%): 15 kV: 220 mils.
- For cables manufactured to other specifications, confirm selection with cable and connector dimensions.
- If using 5/8kV (115-mil) cable, use 8 kV selection.
- For 35 kV applications or an off-the-shelf 3/C splice alternative, select three appropriate single-conductor kits and one HVS-3/C accessory kit.
- Kits do not contain connectors; order compression or solder connectors separately.
- If external grounding and/or shield interrupting is required, order an HVS-EG-3 kit.
- Standard package: 1 kit/box
- Related test reports: 5/8 kV: EDR-5181, 15 kV: EDR-5114, 25 kV: EDR-5048, 25-35 kV: EDR-5197

HVSA-3 In-Line Splices for 3/C Armor Cable (5-15 kV)

FEATURES

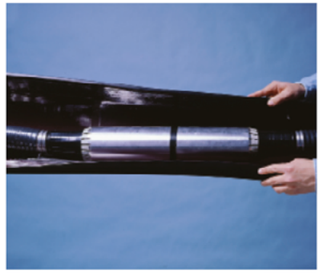
- CRSM wraparound jacket included with each splice
- Meets IEEE-404 standard requirements

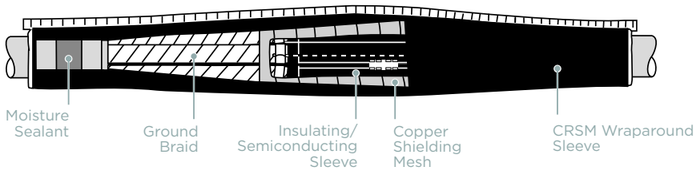
APPLICATIONS

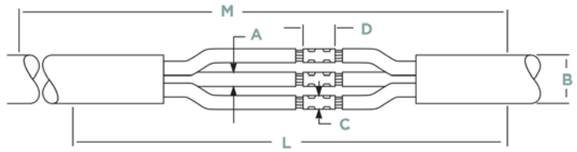
- For use on copper tape, wire shield, lead sheath, and UniShield cables

BENEFITS

- The three conductor cable splice kits are designed to rebuild all layers of the cable. These kits meet the same performance criteria as our single conductor splice kits







PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Conductor Size (AWG/kcmil)		Min - Max Insulation Dia.(A)	Jacket O.D. (max) (B)	Max Connector O.D. (C)	Max Connector Length (D)	Kit Installed Length (L)	Required Installation Space (M)
HVSA-3-820S	(5 kV)	(8 kV)						
HVSA-3-821S	#6-2/0	#6-#2	0.35-0.65 (9-17)	0.90 (23)	0.50 (13)	3.0 (76)	40 (1016)	50 (1270)
HVSA-3-822S	3/0-300	#1-4/0	0.55-0.90 (14-23)	1.30 (33)	0.75 (19)	4.25 (108)	48 (1219)	58 (1473)
HVSA-3-823S	350-750	250-350	0.80-1.25 (20-32)	1.30 (33)	1.10 (28)	6.0 (152)	48 (1219)	58 (1473)
HVSA-3-824S	1000-1500	500-750	1.00-1.60 (25-41)	1.55 (39)	1.45 (37)	8.0 (203)	59 (1499)	69 (1753)
HVSA-3-825S		750-1000	1.30-2.25 (33-57)	1.55 (39)	1.85 (47)	8.0 (203)	59 (1499)	69 (1753)
HVSA-3-1520S		(15 kV)						
HVSA-3-1521S		#2-4/0	0.65-1.05 (17-27)	1.30 (33)	0.90 (23)	4.25 (108)	59 (1499)	69 (1753)
HVSA-3-1522S		250-350	0.90-1.30 (23-33)	1.55 (39)	1.15 (29)	5.5 (140)	59 (1499)	69 (1753)
HVSA-3-1523S		500-750	1.10-1.60 (28-41)	1.55 (39)	1.60 (41)	8.0 (203)	67 (1702)	77 (1956)
HVSA-3-1524S		750-1000	1.25-1.80 (32-46)	2.40 (61)	1.85 (47)	8.0 (203)	67 (1702)	77 (1956)

Note: For voltages higher than 15kV, please see HVSA MOD Kits or please consult a TE representative.

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number. All selections are based on the typical dimensions of 100% insulated cables and commonly used connectors, manufactured in accordance with AEIC standard. Nominal insulation thickness (100%): 5 kV: 90 mils.8 kV: 115 mils., 15 kV: 175 mils., 25 kV: 260 mils. Nominal insulation thickness (133%): 15 kV: 220 mils.
- For cables manufactured to other specifications, confirm selection with cable and connector dimensions.
- For 25 kV, 35 kV, or an off-the-shelf 3/C splice alternative, select three appropriate single-conductor kits and one HVSA MOD kit.
- Kits do not contain connectors; order compression or solder connectors separately.
- If external grounding and/or shield interrupting is required, order an HVS-EG-3 kit.
- Standard package: 1 kit/box.
- Related test reports: 5/8 kV: EDR-5181, 15 kV: EDR-5114, 25-35 kV: EDR-5197

HVS-3/C Mod Rejacketing Kits For 3/C Shielded or Non-Shielded Cable

FEATURES

- The sealing mastic provides a secondary seal to protect against damage from water entering the splice region. Because just four sizes are able to rejacket a broad range of cable sizes from 5-35 kV, the HVS-3/C series kits allow complete inventory flexibility

APPLICATIONS

- For use with three 1/C splice kits, each HVS-3/C kit contains all materials needed to convert three 1/C splices into one 3/C splice

BENEFITS

- The MBSM wraparound sleeve provides environmental sealing, mechanical strength, and durability
- HVS-3/C kits are off-the-shelf alternatives for rejacketing 3/C extruded dielectric (XLPE- or EPR-insulated) power cables



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	3/C Splicing Using 3 of 1/C kits	Order This HVS-3/C kit	Splice Reference Dimensions			
			Conductor Size Range (AWG/kcmil)	Insulation Diameter	Kit Installed Length	Required Install Space
HVS-501		HVS-3/C-1	#6-#1	0.40-0.70 (10-18)	40 (1016)	48 (1219)
HVS-502		HVS-3/C-2	1/0-300	0.65-1.05 (17-27)	48 (1219)	56 (1422)
HVS-503		HVS-3/C-2	350-1000	0.95-1.65 (24-42)	48 (1219)	56 (1422)
HVS-821S	(5 kV)	HVS-3/C-1	#6-2/0	0.35-0.65 (9-17)	40 (1016)	48 (1219)
	(5/8 kV)	HVS-3/C-1	#6-2	0.35-0.65 (9-17)	40 (1016)	48 (1219)
HVS-822S	(5 kV)	HVS-3/C-2	3/0-300	0.55-0.90 (14-23)	48 (1219)	56 (1422)
	(5/8 kV)	HVS-3/C-2	#1-4/0	0.55-0.90 (14-23)	48 (1219)	56 (1422)
HVS-823S	(5 kV)	HVS-3/C-2	350-750	0.80-1.25 (20-32)	48 (1219)	56 (1422)
	(5/8 kV)	HVS-3/C-2	250-350	0.80-1.25 (20-32)	48 (1219)	56 (1422)
HVS-824S	(5 kV)	HVS-3/C-3	1000-1500	1.00-1.60 (25-41)	60 (1524)	68 (1727)
	(5/8 kV)	HVS-3/C-3	500-750	1.00-1.60 (25-41)	60 (1524)	68 (1727)
HVS-825S	(5/8 kV)	HVS-3/C-3	750-1000	1.30-2.25 (33-47)	60 (1524)	68 (1727)
HVS-1521S		HVS-3/C-3	#2-4/0	0.65-1.05 (17-27)	60 (1524)	68 (1727)
HVS-1522S		HVS-3/C-3	250-350	0.90-1.30 (23-33)	60 (1524)	68 (1727)
HVS-1523S		HVS-3/C-4	500-750	1.10-1.60 (28-41)	72 (1829)	80 (2032)
HVS-1524S		HVS-3/C-4	750-1000	1.25-1.80 (32-46)	72 (1829)	80 (2032)
HVS-2521S		HVS-3/C-4	#1-250	0.90-1.20 (23-31)	60 (1524)	68 (1727)
HVS-2522S		HVS-3/C-4	350-500	1.20-1.50 (31-38)	72 (1829)	80 (2032)
HVS-2523S		HVS-3/C-4	750-1000	1.50-1.80 (38-46)	72 (1829)	80 (2032)
HVS-3521S		HVS-3/C-4	1/0-3/0	0.95-1.35 (24-34)	72 (1829)	80 (2032)
HVS-3522S		HVS-3/C-4	4/0-600	1.20-1.70 (30-43)	72 (1829)	80 (2032)
HVS-3523S		HVS-3/C-4	600-1000	1.55-2.15 (39-55)	72 (1829)	80 (2032)
HVS-3524S		HVS-3/C-4	1250-2000	2.1-2.63 (53-66)	72 (1829)	80 (2032)

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate HVS-3/C kit based on the three 1/C kits used for the application (see table above). One HVS-3/C kit will rejacket one 3/C splice. HVS-500 (5 kV) Non-shielded, HVS-820S (5/8 kV), HVS-1520S (15 kV), HVS-2520S (25 kV), HVS-3520S (35 kV)
- Selections are based on the typical dimensions of 100% insulated cables and commonly used connectors, manufactured in accordance with AEIC standard. Nominal conductor size range for the 1/C splice kits is based on the typical dimensions of 100% and 133% insulated cables.
- Minimum 3/C cable jacket O.D. HVS-3/C-1 [0.65" (17 mm)], HVS-3/C-2 [1.30" (33 mm)], HVS-3/C-3 [1.80" (46 mm)], HVS-3/C-4 [2.15" (55 mm)]
- Standard package: 1 kit/box

HVSA Mod Rearmoring and Rejacketing Kits 3/C Armored Cable (5-35 kV)

FEATURES

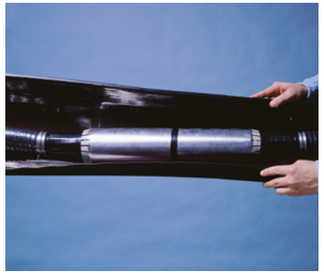
- An alternative 3/C armored splicing system that incorporates three 1/C splices, a wraparound interlocking steel armoring case, and a wraparound sealing sleeve
- Select appropriate 1/C splice kits plus the applicable HVSA kit from the table below

APPLICATIONS

- For re-armoring and re-jacketing 3/C armored Cable (5-35 kV)

BENEFITS

- HVSA mod kits are off-the-shelf alternatives for rejacketing 3/C armored cable splices



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	3/C Splicing Using 3 of 1/C kits	Order This HVSA-MOD Kit	Splice Reference Dimensions			
			Conductor Size Range (AWG/kcmil)	Insulation Diameter	Kit Installed Length	Required Install Space
HVS-501		HVSA-1	#6-#1	0.40-0.70 (10-18)	48 (1219)	56 (1422)
HVS-502		HVSA-1	1/0-300	0.65-1.05 (17-27)	48 (1219)	56 (1422)
HVS-503		HVSA-2	350-1000	0.95-1.65 (24-42)	55 (1397)	63 (1600)
HVS-821S	(5 kV)	HVSA-1	#6-2/0	0.35-0.65 (9-17)	48 (1219)	56 (1422)
	(5/8 kV)	HVSA-1	#6-#2	0.35-0.65 (9-17)	48 (1219)	56 (1422)
HVS-822S	(5 kV)	HVSA-2	3/0-300	0.55-0.90 (14-23)	55 (1397)	63 (1600)
	(5/8 kV)	HVSA-2	#1-4/0	0.55-0.90 (14-23)	55 (1397)	63 (1600)
HVS-823S	(5 kV)	HVSA-2	350-750	0.80-1.25 (20-32)	55 (1397)	63 (1600)
	(5/8 kV)	HVSA-2	250-350	0.80-1.25 (20-32)	55 (1397)	63 (1600)
HVS-824S	(5 kV)	HVSA-3	1000-1500	1.00-1.60 (25-41)	72 (1829)	80 (2032)
	(5/8 kV)	HVSA-3	500-750	1.00-1.60 (25-41)	72 (1829)	80 (2032)
HVS-825S	(5/8 kV)	HVSA-3	750-1000	1.30-2.25 (33-57)	72 (1829)	80 (2032)
HVS-1521S		HVSA-3	#2-4/0	0.65-1.05 (17-27)	72 (1829)	80 (2032)
HVS-1522S		HVSA-3	250-350	0.90-1.30 (23-33)	72 (1829)	80 (2032)
HVS-1523S		HVSA-3	500-750	1.10-1.60 (28-41)	72 (1829)	80 (2032)
HVS-1524S		HVSA-3	750-1000	1.25-1.80 (32-46)	72 (1829)	80 (2032)
HVS-2521S		HVSA-3	#1-250	0.90-1.20 (23-30)	72 (1829)	80 (2032)
HVS-2522S		HVSA-3	350-500	1.20-1.50 (30-38)	72 (1829)	80 (2032)
HVS-2523S		HVSA-4	750-1000	1.50-1.80 (38-46)	81 (2057)	89 (2261)
HVS-3521S		HVSA-3	1/0-3/0	0.95-1.35 (24-34)	72 (1829)	80 (2032)
HVS-3522S		HVSA-4	4/0-600	1.20-1.70 (30-43)	81 (2057)	89 (2261)
HVS-3523S		HVSA-4	600-1000	1.55-2.15 (39-55)	81 (2057)	89 (2261)
HVS-3524S		HVSA-4	1250-2000	2.1-2.63 (53-66)	?	?

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate HVS-3/C kit based on the three 1/C kits used for the application (see table above). One HVS-3/C kit will rejacket one 3/C splice. HVS-500 (5 kV) Non-shielded, HVS-820S (5/8 kV), HVS-1520S (15 kV), HVS-2520S (25 kV), HVS-3520S (35 kV)
- Selections are based on the typical dimensions of 100% insulated cables and commonly used connectors, manufactured in accordance with AEIC standard. Nominal conductor size range for the 1/C splice kits is based on the typical dimensions of 100% and 133% insulated cables.
- Minimum 3/C cable jacket O.D. HVS-3/C-1 0.65" (17 mm), HVS-3/C-2 1.30" (33 mm), HVS-3/C-3 1.80" (46 mm), HVS-3/C-4 2.15" (55 mm)
- Standard package: 1 kit/box

HVS/HVSR 1/C In-Line Transition and "Reducer" Kits (15-35 kV)

FEATURES

- TE Raychem HVSR "reducer" kits are used as a transition splice when the PILC/VCLC conductor size is much smaller than that of the poly cable
- Meets IEEE-404 standard requirements

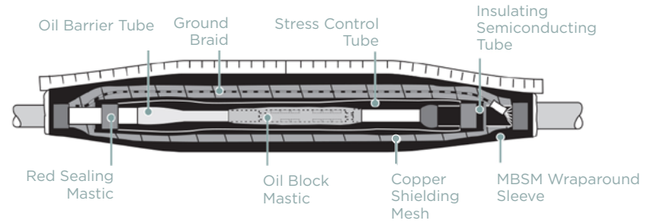
APPLICATIONS

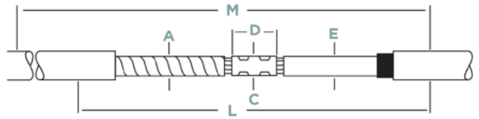
- Use as an in-line splice for paper-insulated, lead-covered (PILC) cable or varnished cambric-insulated, lead-covered (VCLC) cable
- Can also be used as a transition splice—PILC/VCLC to poly (copper tape, lead sheath, wire shield, UniShield, or jacketed/unjacketed concentric neutral) cable

BENEFITS

- PILC splices utilize a highly effective oil-stop system. The system helps to reduce installation and outage time by eliminating insulation stepping, hand taping, lead wiping, and compound filling







PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Conductor Size (AWG/kcmil)	Min - Max Insulation Diameter		Connector Dimensions (max)			Kit Installed Length (L)	Required Install Space (M)
		PILC (A)	POLY (E)	Both Cables O.D. (C)	PILC/PILC Length (D)	PILC/poly Length (D)		
HVS-1580D (15 kV)								
HVS-1581D	#4-4/0	0.60-0.90 (15-23)	0.65-1.05 (17-27)	0.90 (23)	3.5 (89)	4.5 (114)	31 (787)	48 (1219)
HVS-1582D	250-350	0.85-1.10 (22-28)	0.90-1.30 (23-33)	1.15 (29)	3.5 (89)	5.5 (140)	35 (889)	50 (1270)
HVS-1583D	500-750	1.05-1.30 (27-33)	1.10-1.60 (28-41)	1.60 (41)	5.0 (127)	7.0 (178)	37 (940)	50 (1270)
HVS-1584D	750-1000	1.15-1.50 (29-38)	1.25-1.80 (32-46)	1.85 (47)	6.0 (152)	8.0 (203)	40 (1016)	54 (1392)
HVS-2580E (25 kV)								
HVS-2582E	#1-250	0.85-1.20 (22-30)	0.90-1.25 (23-32)	1.10 (28)	3.5 (89)	4.5 (114)	40 (1016)	57 (1448)
HVS-2583E	350-500	1.15-1.45 (29-37)	1.15-1.50 (29-38)	1.35 (34)	5.0 (127)	8.0 (203)	40 (1016)	58 (1473)
HVS-2584E	750-1000	1.50-1.70 (38-43)	1.60-1.90 (41-48)	1.85 (47)	6.0 (152)	9.0 (229)	40 (1016)	61 (1549)
HVS-3580D (35 kV)								
HVS-3582D	1/0-250	1.05-1.40 (27-36)	1.05-1.40 (27-36)	1.20 (30)	3.5 (89)	5.5 (140)	40 (1016)	62 (1575)
HVS-3583D	300-750	1.20-1.70 (30-43)	1.30-1.75 (33-44)	1.60 (41)	6.0 (152)	9.0 (229)	48 (1219)	67 (1702)
HVS-3584D	750-1000	1.60-2.00 (41-51)	1.65-2.00 (41-51)	1.85 (47)	7.0 (178)	10.0 (254)	48 (1219)	67 (1702)
HVSR-1580 Transition Reducer (15 kV)								
HVSR-1582	#4-4/0/4/0-350	0.60-0.90 (15-23)	0.90-1.30 (23-33)	1.15 (29)		5.5 (140)	33 (838)	78 (1981)
HVSR-1583	4/0-350/500-750	0.80-1.10 (20-28)	1.10-1.60 (28-41)	1.60 (41)		7.0 (178)	37 (940)	87 (2210)
HVSR-1584	4/0-500/750-1000	0.80-1.20 (20-30)	1.25-1.80 (32-46)	1.85 (47)		8.0 (203)	40 (1016)	92 (2337)
HVSR-2580E Transition Reducer (25 kV)								
HVSR-2583E	#1-350/350-500	0.80-1.20 (20-30)	1.15-1.50 (29-38)	1.35 (34)		7.0 (178)	40 (1016)	58 (1473)
HVSR-2584E	500-750/750-1000	1.25-1.50 (32-38)	1.55-1.90 (39-48)	1.85 (47)		8.0 (203)	40 (1016)	61 (1549)

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number. Selections are based on the typical dimensions of 100% and 133% insulated cables and commonly used connectors manufactured in accordance with AEIC standard. Nominal insulation thickness (100%): 15 kV: 165 mil (PILC/VCLC). 175 mils (poly). 25 kV: 255 mils (PILC/VCLC), 260 mils (poly). 28 kV: 255 mils (PILC/VCLC), 280 mils (poly). 35 kV: 330 mils (PILC VCLC), 345 mils (poly) Nominal insulation thickness (133%): 15 kV: 220 mils (poly).
- For cables manufactured to other specifications, confirm selection with cable and connector dimensions.
- Kits do not contain shear bolt connectors; order oil block (sweated or compression) connectors separately.
- Cable paper cutters are available. EXRM-1004
- For lead sheath repair, order an HVS-LR kit.
- Standard package: 1 kit/box
- Related test reports: 15 kV: EDR-5080, 25 kV: EDR-5083, 35 kV: EDR-5184

HVS-3-1590S/HVS-3-2590S 3/C In-Line Splices for PILC cable (15-25 kV)

FEATURES

- 3/C in-line PILC splices provide a highly effective and easily installed oil stop system, using standard heat-shrinkable components
- Meets IEEE-404 standard requirements

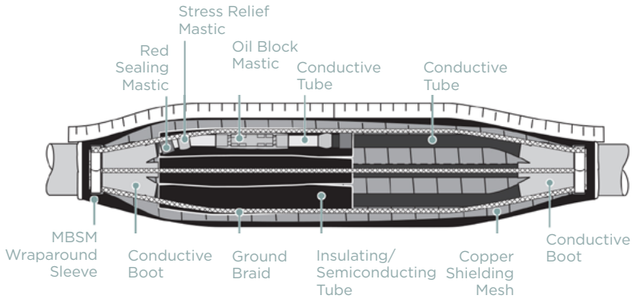
APPLICATIONS

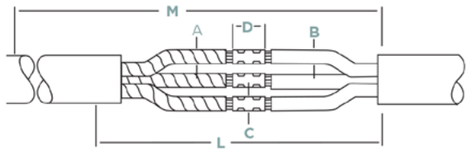
- For use on 3/C paper-insulated, lead-covered (PILC) cable, or varnished cambric-insulated, lead covered (VCLC) cable

BENEFITS

- The adhesive-lined conductive breakout provides an oil- and pressure-resistant seal and grounds the conductive tubing to the lead sheath
- Oil barrier tubing locks the oil in the PILC cables, converting each conductor into the polymeric equivalent







PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	PILC Conductor Size (AWG/kcmil)	Min - Max PILC Insulation Dia. (A)	Connector Max O.D. (C)	Connector Max Length (D)	Kit Installed Length (L)	Required Install Space (M)
HVS-3-1590 (15 kV)						
HVS-3-1591	#4-4/0	0.60-1.00 (15-25)	0.90 (23)	3.5 (89)	63(1600)	67 (1702)
HVS-3-1592	250-350	0.85-1.10 (22-28)	1.15 (29)	3.5 (89)	63 (1600)	67 (1702)
HVS-3-1593	500-750	1.05-1.50 (27-38)	1.60 (41)	5.0 (127)	67 (1702)	71 (1803)
HVS-3-1594	750-1000	1.15-1.75 (29-44)	1.85 (47)	6.0 (152)	67 (1702)	71 (1803)
HVS-3-1590S “shorty” (15 kV)*						
HVS-3-1591S	#2-350	0.65-1.00 (17-25)	0.85 (22)	3.0 (76)	55 (1397)	55 (1397)
HVS-3-1592S	4/0-600	0.85-1.25 (22-32)	1.20 (30)	4.0 (102)	59 (1499)	59 (1499)
HVS-3-1593S	500-1000	1.00-1.50 (25-38)	1.50 (38)	5.0 (127)	59 (1499)	59 (1499)
HVS-3-2590E (25 kV)						
HVS-3-2591E	#1-350	0.85-1.15 (22-29)	1.15 (29)	4.0 (102)	67 (1702)	71 (1803)
HVS-3-2592E	350-750	1.10-1.50 (28-32)	1.40 (36)	5.0 (25)	67 (1702)	71 (1803)

HVS-3-1590S “shorty“ splice kit does not allow cross phasing.

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number. Selections are based on the typical dimensions of 100%-insulated cables (manufactured in accordance with the data contained in AEIC 1-1968 and commonly used connectors). Nominal insulation thickness (100%): 15 kV: 165 mils., 25 kV: 255 mils.
- For cables manufactured to other specifications, confirm selection with cable and connector dimensions.
- Kits do not contain connectors; order oil block (sweated or compression) connectors separately.
- Standard package: One 3/C kit/box.
- Related test reports: HVS-3-1590/2590: EDR-5143, HVS-3-1590S: EDR-5250, HVS-3-2590E: EDR-5223

HVS-T/HVSR-T 3/C PILC/VCLC to 1/C Poly Trifurcating Transition and Transition "Reducer" Kits (15-35 kV)

FEATURES

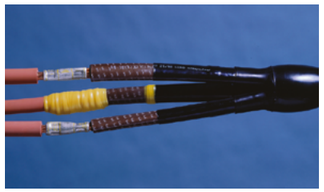
- Trifurcating transition splices greatly reduce the complexity of splicing one 3/C PILC cable to three 1/C polymeric cables
- Provide solderless ground braid connection for PILC cable
- Meets IEEE-404 standard requirements

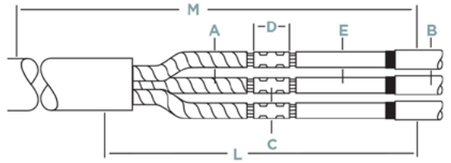
APPLICATIONS

- Used for splicing 3/C PILC/VCLC to three individual poly cables
- Transition Reducer kits available for when the PILC/VCLC cable has a much smaller conductor size than the poly cable

BENEFITS

- By converting the PILC cable to a polymeric equivalent, the splices eliminate compound filling and difficult lead wiping which lets you get on and off the job site quickly
- Heat shrink components help to eliminate lead sleeve failures by replacing lead sleeves and wipes that can crack due to corrosion or cable flexing





PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	PILC/Poly Conductor Size (AWG/kcmil)	Min - Max Insulation Diameter		1/C Poly Jacket O.D. (B)	Connector Dimensions (max)		Kit Installed Length (L)	Required Install Space (M)
		PILC (A)	Poly (E)		O.D. (C)	Length (D)		
HVS-T-1580S (15 kV)								
HVS-T-1581S	#4-4/0*	0.60-1.00 (15-25)	0.65-1.05 (17-27)	1.35 (34)	0.90 (23)	4.5 (114)	40 (1016)	60 (1525)
HVS-T-1582S	250-350*	0.85-1.10 (22-28)	0.90-1.30 (23-33)	1.50 (38)	1.15 (29)	5.5 (140)	40 (1016)	62 (1575)
HVS-T-1583S	500-750*	1.05-1.50 (27-38)	1.10-1.60 (28-41)	1.90 (48)	1.60 (41)	7.0 (178)	48 (1219)	68 (1727)
HVS-T-1584S	750-1000	1.30-1.75 (33-44)	1.25-1.80 (32-46)	2.15 (55)	1.85 (47)	8.0 (203)	48 (1219)	69 (1753)
HVS-T-1580E-S (15 kV) Short Splice								
HVS-T-1581E-S	1/0-4/0*	0.65-1.00 (17-25)	0.70-1.05 (18-27)	1.40 (36)	0.90 (23)	2.5 (63)	40 (1016)	61 (1550)
HVS-T-1582E-S	250-500*	0.85-1.20 (22-30)	0.90-1.20 (23-30)	1.50 (38)	1.35 (34)	4.5 (114)	40 (1016)	65 (1650)
HVS-T-1583E-S	500-1000	1.10-1.50 (28-38)	1.15-1.75 (29-44)	2.20 (56)	1.85 (47)	5.0 (127)	40 (1016)	69 (1753)
HVS-T-2580E (25 kV)								
HVS-T-2582E	#1-250	0.85-1.20 (22-30)	0.90-1.25 (23-32)	1.55 (39)	1.10 (28)	5.5 (140)	48 (1219)	65 (1650)
HVS-T-2583E	350-500	1.15-1.40 (29-36)	1.15-1.50 (29-38)	2.00 (51)	1.35 (34)	7.0 (178)	48 (1219)	75 (1900)
HVS-T-2584E	750-1000	1.50-1.70 (38-43)	1.50-1.90 (38-48)	2.15 (55)	1.85 (47)	8.0 (203)	48 (1219)	77 (1955)
HVS-T-3580S (35 kV)								
HVS-T-3582S	1/0-350	1.05-1.40 (27-36)	1.05-1.50 (27-38)	1.90 (48)	1.20 (30)	6.5 (165)	55 (1397)	81 (2057)
HVS-T-3583S	250-750	1.20-1.70 (30-43)	1.30-1.75 (30-44)	2.10 (53)	1.80 (46)	8.0 (203)	55 (1397)	85 (2159)
HVSR-T-1580 Transition Reducer (15 kV)								
HVSR-T-1582	#4-4/0/4/0-350	0.60-1.00 (15-25)	0.90-1.30 (23-33)	1.50 (38)	1.15 (29)	5.5 (140)	40 (1016)	62 (1575)
HVSR-T-1583	4/0-350/500-750	0.80-1.20 (20-30)	1.10-1.60 (28-41)	1.90 (48)	1.60 (41)	7.0 (178)	48 (1219)	68 (1727)
HVSR-T-1584	250-500/750-1000	0.85-1.30 (22-33)	1.25-1.80 (32-46)	2.15 (55)	1.85 (47)	8.0 (203)	48 (1219)	69 (1753)
HVSR-T-2580E Transition Reducer (25 kV)								
HVSR-T-2582E	#1-400/350-500	0.80-1.20 (20-30)	1.15-1.50(29-38)	2.00 (51)	1.35 (34)	7.0 (178)	48 (1219)	75 (1900)
HVSR-T-2583E	500-600/750-1000	1.25-1.40 (32-36)	1.55-1.90 (39-48)	2.15 (55)	1.85 (47)	8.0 (203)	48 (1219)	77 (1955)

** Check the jacket O.D. on the 133% insulated, single-conductor 15-kV 4/0, 350-kcmil, and 750-kcmil cables to ensure they fall within the use range specified. If you have any questions, contact your TE Connectivity field sales engineer or representative.*

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number. All selections are based on the typical dimensions of 100% and 133% insulated poly cables and commonly used connectors manufactured in accordance with AEIC standard. Nominal insulation thickness (100%): 15 kV: 165 mils (PILC/VCLC). 175 mils (poly)., 25 kV: 255 mils (PILC/VCLC). 260 mils (poly). 35 kV: 330 mils (PILC/VCLC). 345 mils (poly). Nominal insulation thickness (133%): 15 kV: 220 mils (poly).
- For cables manufactured to other specifications, confirm selection with cable and connector dimensions.
- Kits do not contain connectors; order oil block (sweated or compression) connectors separately.
- Standard package: 1 kit/box
- Related test reports: 15 kV: EDR-5137, 25 kV: EDR-5142, 35 kV: EDR-5184, 15 kV HVS-T-1580E-S: EDR-5227
- Cable paper cutters are available EXRM-1004.
- For a cold applied alternative, see CAT-J series

HVS-T-1590S 3/C PILC/VCLC to PILC/VCLC Trifurcating Kits (15 kV)

FEATURES

- Trifurcating transition splices greatly reduce the complexity of splicing one 3/C PILC cable to three 1/C PILC cables
- This kit converts one 3/C (PILC/VCLC) cable to three 1/C (PILC/VCLC) cables
- Meets IEEE-404 standard requirements

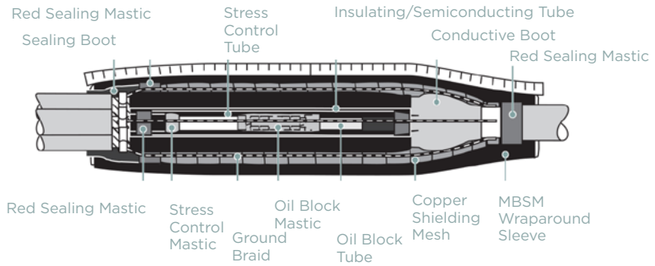
APPLICATIONS

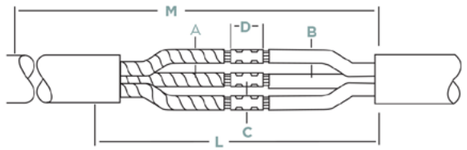
- For use on paper-insulated, lead-covered (PILC) cable or varnished cambric-insulated, lead-covered (VCLC) cable

BENEFITS

- By converting the PILC cable to a polymeric equivalent, the splices eliminate compound filling and difficult lead wiping which lets you get on and off the job site quickly
- Heat-shrink components help to eliminate lead sleeve failures by replacing lead sleeves and wipes that can crack due to corrosion or cable flexing







PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	PILC Conductor Size (AWG/kcmil)	Min - Max PILC Insulation Dia. (A)	1/C PILC Jacket (Max O.D.) (B)	Connector Max O.D. (C)	Connector Max Length (D)	Kit Installed Length (L)	Required Install Space (M)
HVS-T-1590S (15 kV)							
HVS-T-1591S	#4-4/0	0.60-1.05 (15-27)	1.30 (33)	0.90 (23)	3.5 (89)	40 (1016)	60 (1524)
HVS-T-1592S	4/0-400	0.85-1.30 (22-33)	1.50 (38)	1.15 (29)	4.5 (114)	40 (1016)	60 (1524)
HVS-T-1593S	500-750	1.05-1.60 (27-40)	1.90 (48)	1.60 (41)	6.0 (152)	48 (1219)	64 (1626)

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number. All selections are based on the typical dimensions of 100% insulated cables and dimensions of commonly used connectors manufactured in accordance with AEIC standard. Nominal insulation thickness (100%): 165 mils.
- Kits do not contain connectors; order oil block (sweated or compression) connectors separately.
- Standard package: 1 kit/box
- Related test reports: EDR-5143
- Cable paper cutters are available EXRM-1004.

HVS/HVSA-3-1580S (Unarmored & Armored) Kits (15 kV)

FEATURES

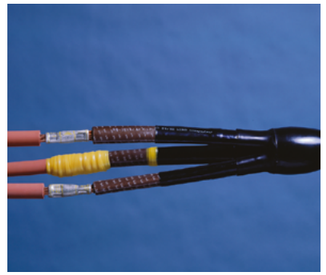
- Incorporates a thermoplastic internal moisture sealant as a secondary barrier. Load cycle tested to perform at a conductor temperature of 110°C with an internal oil pressure of 15 psi
- Meets IEEE-404 standard requirements

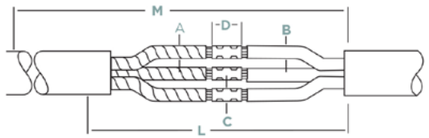
APPLICATIONS

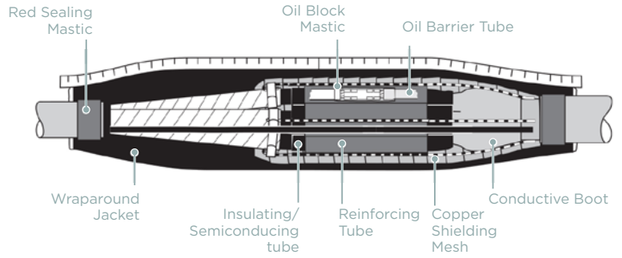
- Provide a reliable means for splicing 3/C 15 kV PILC/VCLC cables to 3/C 15 kV armored or unarmored polymeric cables

BENEFITS

- Eliminates the need for compound filling, lead wiping and hot oil. Installation is quick, easy, and repeatable
- TE utilizes high temperature oil barrier tubing, oil-block mastic, and a high-density conductive boot to seal the oil within the PILC cable. This oil sealing technology has been successful in over 18 years of installations. Heat-shrink accessories fit out-of-round and sectored cables, and handle conductor size transitions
- TE utilizes its rugged MBSM rejacketing sleeve to seal against moisture ingress







PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	PILC/Poly Conductor Size (AWG/kcmil)	Min - Max PILC Insulation Dia (A)	Min - Max Poly Insulation Dia (B)	Connector Max O.D. (C)	Connector Max Length (D)	Kit Installed Length (L)	Required Install Space (M)
HVS-3-1580S Unarmored Cable (15 kV)							
HVS-3-1581S	#4-4/0	0.65-1.00 (15-25)	0.60-1.05 (17-27)	1.15 (29)	5.5 (140)	60 (1524)	68 (1727)
HVS-3-1582S	250-350	0.85-1.10 (22-28)	0.90-1.30 (23-33)	1.15 (29)	5.5 (140)	60 (1524)	68 (1727)
HVS-3-1583S	500-750	1.05-1.50 (27-38)	1.10-1.60 (28-41)	1.60 (41)	7.0 (178)	72 (1829)	80 (2032)
HVS-3-1584S	750-1000	1.15-1.75 (29-44)	1.25-1.80 (32-46)	1.85 (47)	8.0 (203)	72 (1829)	80 (2032)
HVSA-3-1580S Armored Cable (15 kV)							
HVSA-3-1581S	#4-4/0	0.65-1.00 (17-25)	0.60-1.05 (17-27)	0.90 (23)	4.50 (114)	63 (1600)	70 (1778)
HVSA-3-1582S	250-350	0.85-1.10 (22-28)	0.90-1.30 (23-33)	1.15 (29)	5.5 (140)	72 (1829)	80 (2032)
HVSA-3-1583S	500-750	1.05-1.50 (27-38)	1.10-1.60 (28-41)	1.60 (41)	7.0 (178)	72 (1829)	80 (2032)
HVSA-3-1584S	750-1000	1.15-1.75 (29-44)	1.25-1.85 (32-46)	1.85 (47)	8.0 (203)	72 (1829)	80 (2032)

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number. All selections are based on the typical dimensions of 100% insulated cables and the dimensions of commonly used connectors manufactured in accordance with AEIC standard. Nominal insulation thickness (100%): 165 mils.
- Armored kits include an interlocking steel armoring wraparound with bendable fingers to provide a smooth transition to the armor.
- Kits do not contain connectors; order oil block (sweated or compression) connectors separately.
- These kits do not allow cross-phasing.
- Standard package: 1 kit/box
- Related test reports: EDR-5137
- Cable paper cutters are available EXRM-1004.

HVSY Wye (Tap) Splices for 1/C Poly-Poly, PILC-PILC, & PILC-Poly Cable (15 kV)

FEATURES

- Includes a positive heat-activated sealant system that eliminates taping between main and tap cables
- Designed to seal against moisture ingress by including a branch clip and the heavy-duty MBSM wraparound sleeve
- Meets IEEE-404 standard requirements

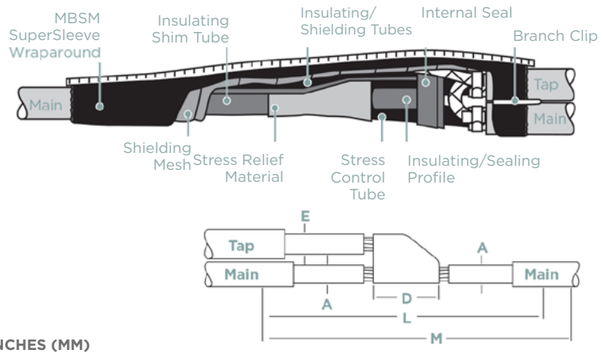
APPLICATIONS

- HVSY-1520S is for use on copper tape, wire shield, lead sheath, and UniShield cables
- HVSY-1580D is for use as a Wye splice where the main and/or tap cables may be paper-insulated, lead-covered (PILC) cable; varnished cambric-insulated, or lead-covered (VCLC) cable
- Used for submersible or direct burial

BENEFITS

- Excellent water barrier. Internal moisture seal for redundancy
- Splices accept a wide range of main and tap cable sizes
- Compact shape simplifies cable training





PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Poly Conductor Size (AWG/kcmil)		Min - Max Insulation Diameter		Max Connector Length (max) (D)	Kit Installed Length (L)	Required Installation Space (M)	Burndy Connector
	Main	Tap	Main (A)	Tap (E)				
HVSY-1520S (15 kV Polymeric Wye) For use with soldered connectors.								
HVSY-1522S	#2-4/0	#2-4/0	0.65-1.05 (17-27)	0.65-1.05 (17-27)	3.0 (75)	30 (750)	45 (1125)	
HVSY-1523S	250-750	#2-750	0.95-1.45 (24-37)	0.65-1.45 (17-37)	3.5 (90)	30 (750)	45 (1125)	
HVSY-1520S (15 kV Polymeric Wye) For use with Burndy YSH crimp connectors for Copper conductors only								
HVSY-1522S	#2-4/0	#2-4/0	0.65-1.05 (17-27)	0.65-1.05 (17-27)	3.0 (75)	30 (750)	45 (1125)	YSH-2929
HVSY-1523S	250-500	4/0-500	0.85-1.25 (22-32)	0.85-1.25 (22-32)	3.5 (90)	30 (750)	45 (1125)	YSH-3434
HVSY-1524S	500-750	350-750	1.10-1.45 (28-37)	1.00-1.45 (25-37)	3.5 (90)	30 (750)	45 (1125)	YSH-3939

Catalog Number	PILC/Poly Conductor Size (AWG/kcmil)		Min - Max PILC/Poly Insulation Dia.		Lead Sheath (OD max)	Max Connector Length (D)	Kit Installed Length (L)	Required Install Space (M)
	Main	Tap	Main (A)	Tap (E)				
HVSY-1580D (15 kV PILC and PILC-Poly Wye)								
HVSY-1582D	#2-4/0	#2-4/0	0.65-1.05 (17-27)	0.65-1.05 (17-27)	1.20 (30)	3.0 (75)	30 (750)	45 (1125)
HVSY-1583D	250-750	#2-750	0.95-1.45 (24-37)	0.65-1.45 (17-37)	1.50 (38)	3.5 (90)	30 (750)	45 (1125)

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number. All selections are based on the typical dimensions of 100% and 133% insulated cables and dimensions of commonly used connectors manufactured in accordance with AEIC standard. Nominal insulation thickness (100%): 165 mils (PILC/VCLC) 175 mils (poly) Nominal insulation thickness (133%): 220 mils (poly).
- For cables manufactured to other specifications, confirm selection with cable and connector dimensions.
- Kits do not contain connectors. For connector information contact your local TE sales representative for information. For HVSY-1520S kits with copper conductors only, H-tap compressed connectors, available from Burndy (800-346-4175), may be used in place of the half-duplex connector.
- Check poly cable insulation diameter to help ensure a proper fit.
- For 15 kV H-configuration connections on 1/C shielded power cable, order the HVSH-1520 mod kit for use in conjunction with appropriate HVSY-1520S kit.
- Standard package: 1 kit/box
- Related test reports: HVSY-1520S: EDR-5236, EDR-5238, HVSY-5256 HVSY-1580D: EDR-2535, EDR-5317

HVSH-MOD H Configuration Kits for 1/C Shielded Power Cable (15 kV)

FEATURES

- These splices can be used for submersible or direct burial applications
- Meets IEEE-404 standard requirements

APPLICATIONS

- Used in conjunction with HVSY-1520S and HVSY-1580D-MOD series Wye splice kits

BENEFITS

- This combination provides a heat shrinkable 15 kV system that accommodates “H-configuration” connections for single-conductor power cables. This kit will accommodate both crimped connectors (copper conductor only) and soldered connectors



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Conductor Size (AWG/kcmil)		Min - Max Insulation Diameter		Connector Length (max)	Kit Installed Length	Kit Installed Space
	Main	Tap	Main	Tap			
HVSH-1520-MOD							
HVSY-1522S	#2-4/0	#2-4/0	0.65-1.05 (17-27)	0.65-1.05 (17-27)	3.0 (75)	30 (750)	45 (1125)
HVSH-1522-MOD							
HVSY-1523S	250-750	#2-750	0.95-1.45 (24-37)	0.65-1.45 (17-37)	3.5 (90)	30 (750)	45 (1125)
HVSH-1523-MOD							
HVSH-1580-MOD							
HVSY-1582D	#2-4/0	#2-4/0	0.65-1.05 (17-27)	0.65-1.05 (17-27)	3.0 (75)	30 (750)	45 (1125)
HVSH-1582D-MOD							
HVSY-1583D	250-750	#2-750**	0.85-1.45 (22-37)	0.65-1.45 (17-37)	3.5 (90)	30 (750)	45 (1125)
HVSH-1583D-MOD							

**To make an “H-configuration”, order both the standard HVSY kit and the HVSH-MOD kit.*
***Check cable insulation diameter to ensure proper fit.*

ADDITIONAL PRODUCT INFORMATION

- Poly cable selections are based on the typical dimensions of 100% insulated cables made in accordance with AEIC standard. Final kit selection should be verified by actual cable dimensions. PILC/VCLC cable selections are based on the typical dimensions of 100% insulated cables manufactured in accordance with AEIC standard.
- Kits do not contain connectors. For connector information contact your local TE sales representative for information.
- Standard package: 1 kit/box
- Related test reports HVSH-1520-MOD: EDR-5236, HVSH-1580D-MOD: EDR-5235

HVES Live End Seal for 1/C PILC and Poly or 3/C PILC Cable (15-25 kV)

FEATURES

- The outer adhesive-lined rejacketing sleeve is designed to provide a positive environmental seal
- These kits consist of heat shrinkable tubings and a high-dielectric strength, polymeric plug which overlap the conductor to provide excellent insulation

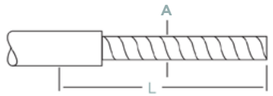
APPLICATIONS

- Insulate and seal the ends of polymeric and PILC cables

BENEFITS

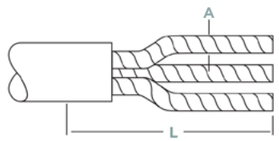
- Once TE Raychem HVES kit is installed, the cable can be re-energized. Typical applications include the live ending of spare cables for future use, isolating a failed cable length, and sectionalizing a cable circuit during system maintenance and repair, expansion, or testing





PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	PILC/Poly Conductor Size (AWG/kcmil)	Min - Max Insulation Dia. PILC (A)	Min - Max Insulation Dia. Poly (A)	Kit Installed Length (L)
HVES-1520D (1/C PILC/VCLC and 1/C Poly) 15 kV				
HVES-1521D	#4-4/0	0.60-0.90 (15-23)	0.65-1.05 (17-27)	12 (305)
HVES-1522D	250-350	0.85-1.10 (22-28)	0.90-1.30 (23-33)	12 (305)
HVES-1523D	500-750	1.05-1.30 (27-33)	1.10-1.60 (28-41)	12 (305)
HVES-1524D	750-1000	1.20-1.50 (30-38)	1.25-1.80 (32-46)	12 (305)
HVES-2520D (1/C PILC/VCLC and 1/C Poly) 25 kV				
HVES-2521D	#1-250	0.85-1.25 (22-32)	0.85-1.25 (22-32)	21 (533)
HVES-2522D	350-500	1.15-1.50 (29-38)	1.15-1.50 (29-38)	23 (584)
HVES-2523D	750-1000	1.50-1.90 (38-48)	1.50-1.90 (38-48)	25 (635)



Catalog Number	PILC/Poly Conductor Size (AWG/kcmil)	Min - Max Insulation Dia. PILC (A)	Kit Installed Length (L)
HVES-3-1590 (3/C PILC/VCLC) 15 kV			
HVES-3-1591	#4-4/0	0.60-1.00 (15-25)	27 (686)
HVES-3-1592	250-350	0.85-1.10 (22-28)	27 (686)
HVES-3-1593	500-750	1.05-1.50 (27-38)	27 (686)
HVES-3-1594	750-1000	1.15-1.75 (29-44)	27 (686)
HVES-3-2590E (3/C PILC/VCLC) 25kV			
HVES-3-2591E	#1-250	0.85-1.20 (22-30)	28 (711)
HVES-3-2592E	350-500	1.15-1.40 (28-36)	31 (787)
HVES-3-2593E	750-1000	1.50-1.70 (38-43)	32 (813)

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number. All selections are based on the typical dimensions of 100% insulated and 133% insulated poly cables manufactured in accordance with AEIC standard. Nominal insulation thickness (100%): 15 kV: 165 mils (PILC/VCLC). 175 mils (poly). 25 kV: 225 mils (PILC/VCLC). 260 mils (poly). Nominal insulation thickness (133%): 15 kV: 220 mils (poly).
- For cables manufactured to other specifications, confirm selection with cable dimensions.
- Standard package: HVES-1520D,-2520D = One kit/box, HVES-3-1590,-2590E = One 3/C kit/box
- Related test reports: 15 kV: EDR-5146, 25 kV: EDR-5273

HV-MSK Splices for In-Line and Multiconductor/Medium-Voltage Multi-Conductor Mining Cable (5-8 kV)

FEATURES

- TE Raychem HV-MSK is flame-retardant, multiconductor splice kits
- MSHA approved for 07-LA090013-MSHA

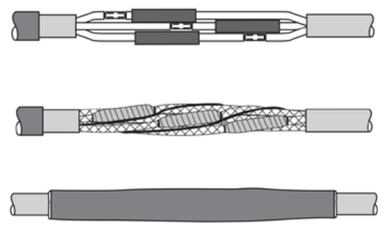
APPLICATIONS

- For use on standard flexible cables and mining cables (MP-GC and SHD-GC) up to 8 kV

BENEFITS

- Stepped connector design allows for longer life in higher use bending areas





PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Power Conductor Size (AWG/kcmil)				Sleeve Length
	5 kV 3/C MP-GC	5 kV 3/C SHD-GC	8 kV 3/C MP-GC	8 kV 3/C SHD-GC	
HV-MSK for 3/C Flexible Cable (5-8 kV)					
HV-MSK-3/C-581	#6-#1	#6-#4	#6-#4		22
HV-MSK-3/C-582	1/0-350	#2-3/0	#2-4/0	#4-2/0	22
HV-MSK-3/C-584	400-750	4/0-350	250-750	3/0-350	29

ADDITIONAL PRODUCT INFORMATION

- Select appropriate catalog number based on conductor size for your cable type. Confirm selection with cable diameter range.
- Kits do not contain connectors; please order separately.
- For cable types not listed in this catalog, contact your local TE representative.
- Standard package: One 3/C kit per box.

3/C CSJA Cold Shrinkable Joint for 15 kV 3/C TECK Cables

FEATURES

- The joint consists of three pre-expanded silicone bodies on a unique holdout and a separate rejacketing system
- Single piece silicone rubber body for wide application range
- Integrated electrical stress control via factory molded stress cones and a Faraday cage
- TE Raychem CSJA joints have been quaiilified to IEEE-404
- Easy release spiral holdout

APPLICATIONS

- For 15 kV 3/C TECK cables

BENEFITS

- This design is easy to install with minimal steps and a short installation time
- The cold applied wraparound GMRS rejacketing system is designed to seal the entire splice and provide mechanical and environmental protection for direct buried and submersible installations
- Both mechanical and compression connectors can be used
- Robust rejacketing solution eliminates parking distance



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Voltage Class	Nominal Cable Range	Min - Max Insulation O.D. (A)	Connector Dimensions		Kit Installed Length (L)	Required Install Space (M)
				Max O.D. (C)	Max Length (D)		
CSJA 3/C No Connector, For TECK Cable							
CSJA-3-1521-TECK	15 kV	#2-350	0.69-1.20 (17.5-30.5)	1.30 (33.0)	5.50 (140.0)	65 (1650)	65 (1650)
CSJA-3-1522-TECK	15 kV	4/0-750	0.87-1.40 (22.1-35.6)	1.50 (38.0)	5.50 (140.0)	65 (1650)	65 (1650)
CSJA-3-1523-TECK	15 kV	350-1000	1.03-1.58 (26.2-40.0)	1.65 (42.0)	6.69 (170.0)	71 (1800)	71 (1800)

Catalog Number	Voltage Class	Nominal Cable Range	Min - Max Insulation O.D. (A)	Dia. Over Cable Conductor* min/max	Kit Installed Length	Required Install Space (M)
CSJA 3/C Copper Shear Bolt Connector, For TECK Cable						
CSJA-3-1521M1-TECK	15 kV	2/0-350	0.69-1.20 (17.5-30.5)	0.376-0.736 (9.5-18.7)	65 (1650)	65 (1650)
CSJA-3-1522M1-TECK	15 kV	4/0-500	0.87-1.40 (22.1-35.6)	0.376-0.736 (9.5-18.7)	65 (1650)	65 (1650)
CSJA-3-1522M2-TECK	15 kV	350-750	0.87-1.40 (22.1-35.6)	0.570-0.945 (14.5-24.0)	71 (1800)	71 (1800)
CSJA-3-1523M3-TECK	15 kV	500-1000	1.03-1.58 (26.2-40.0)	0.736-1.152 (18.7-29.3)	71 (1800)	71 (1800)
CSJA 3/C Aluminum Shear Bolt Connector, For TECK Cable						
CSJA-3-1521M4-TECK	15 kV	#2-3/0	0.69-1.20 (17.5-30.5)	0.268-0.470 (6.8-11.9)	65 (1650)	65 (1650)
CSJA-3-1521M5-TECK	15 kV	#2-350	0.69-1.20 (17.5-30.5)	0.268-0.681 (6.8-17.3)	65 (1650)	65 (1650)
CSJA-3-1522M6-TECK	15 kV	4/0-500	0.87-1.40 (22.1-35.6)	0.423-0.813 (10.7-20.6)	71 (1800)	71 (1800)
CSJA-3-1522M7-TECK	15 kV	500-750	0.87-1.40 (22.1-35.6)	0.736-0.998 (18.7-25.3)	71 (1800)	71 (1800)
CSJA-3-1523M8-TECK	15 kV	350-750	1.03-1.58 (26.2-40.0)	0.616-0.998 (15.7-25.3)	71 (1800)	71 (1800)

** Diameter Over Cable Conductor Min-Max accepted by the Al or Cu Shear Bolt Connector*

ADDITIONAL PRODUCT INFORMATION

- Selections are based on the typical dimensions of 100% insulated cables, manufactured in accordance with AEIC standard. Nominal insulation thickness (100%): 15 kV: 175mils, 25 kV: 260mils, 35 kV: 345mils.
- Select the appropriate catalog number. Use the insulation OD and jacket OD range as the final ordering criteria.
- For mechanical shear bolt connector included in the kit confirm the correct connector selection according to the min/max diameter over the cable conductor from the tables.
- Standard package: 1 kit/box.
- Related test reports: EDR-5530.

CSJA In-line Cold Shrinkable Joints for all 1/C Shielded Power Cables

FEATURES

- Total length of the splice body on the holdout is 14 to 19 inches providing a compact design
- Integrated electrical stress control enhanced by factory molded stress cones and a Faraday cage
- Void filling stress relief mastics are not necessary
- Proven shield continuity concept which can also bridge concentric neutrals
- The joint accepts both mechanical and compression connectors
- When a shear bolt connector is used, this is a totally crimpless system
- Meets IEEE-404 standard requirements

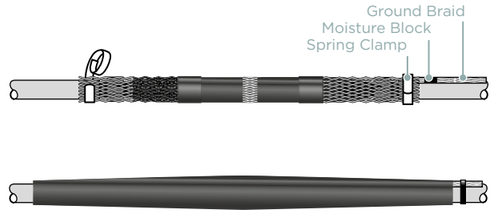
APPLICATIONS

- "All-in-One" cold shrinkable joint for 5 kV through 35 kV. It is designed to splice tape shield, wire shield, LC shield, UniShield, JCN and flat strap shielded cables

BENEFITS

- This cable joint has a pre-expanded EPDM rejacketing sleeve and an integrated neutral sock. The “All-in-One” design is easy to install with minimal steps and short installation time
- A pre-expanded, single-piece silicone rubber joint body with high mechanical expansion capability allows a wide application range
- The silicone rubber body provides high dielectric strength, high tear strength, low tension set, and excellent low temperature recovery
- An ergonomically designed spiral holdout provides a smooth installation with low release forces



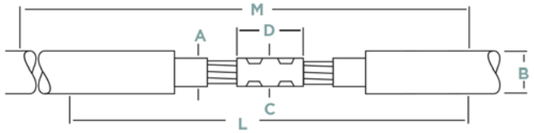


PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Length of Moisture Blocked Braid (mm)	Braid (AWG)
Cold Applied External Grounding Kit		
CSJ-EG-1	24 (610)	#8
CSJ-EG-2	24 (610)	#6
CSJ-EG-3	24 (610)	#4
CSJ-EG-4	24 (610)	#2

ADDITIONAL PRODUCT INFORMATION

- Selections are based on the typical dimensions of 100% insulated cables, manufactured in accordance with AEIC standard. Nominal insulation thickness (100%): 15 kV: 175 mils, 25 kV: 260 mils, 35 kV: 345 mils.
- Select the appropriate catalog number. Use the insulation OD and jacket OD range as the final ordering criteria.
- For mechanical shear bolt connector included in the kit confirm the correct connector selection according to the Min/Max diameter over the cable conductor from the tables.
- If external grounding is required, order the CSJ-EG kit.
- Standard package: 1 kit per box.
- Related test reports: EDR-5430, EDR-5455, EDR-5513, EDR-5570, EDR-5572, EDR-5588
- For AL Mechanical shear bolt connector information request data sheet 9-1773440-4 and for CU request 165972.



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Voltage Class	Nominal Cable Range	Min - Max Insulation O.D. (A)	Jacket O.D. (max) (B)	Neutral Sock (AWG)	Min - Max Diameter Over Cable Conductor*		Kit Installed Length (L)	Required Install Space (M)
						O.D. (C)	Length (D)		
CSJA Joint Without Connector									
CSJA-821	5-8 kV	4/0-750	0.69-1.20 (17.5-30.5)	1.50 (38.1)	1/0	1.30 (33.0)	5.50 (140.0)	29 (737)	39 (990)
CSJA-1521	15 kV	#2-350	0.69-1.20 (17.5-30.5)	1.50 (38.1)	1/0	1.30 (33.0)	5.50 (140.0)	29 (737)	39 (990)
CSJA-1522	15 kV	4/0-750	0.87-1.40 (22.1-35.6)	1.80 (46.0)	1/0	1.50 (38.0)	5.50 (140.0)	29 (737)	39 (990)
CSJA-1523	15 kV	350-1000	1.03-1.58 (26.2-40.0)	2.05 (52.1)	2/0	1.65 (42.0)	6.69 (170.0)	33 (838)	43 (1090)
CSJA-1524	15 kV	750-1250	1.28-2.05 (32.50-52.0)	2.60 (66.0)	2/0	1.85 (47.0)	7.90 (200.0)	37 (939)	49 (1244)
CSJA-2822	28 kV	#1-500	0.87-1.40 (22.1-35.6)	1.80 (46.0)	1/0	1.50 (38.0)	5.50 (140.0)	29 (737)	39 (990)
CSJA-2823	28 kV	4/0-750	1.03-1.58 (26.20-40.0)	2.05 (52.1)	2/0	1.65 (42.0)	6.69 (170.0)	33 (838)	43 (1090)
CSJA-2824	28 kV	500-1250	1.28-2.05 (32.50-52.0)	2.60 (66.0)	2/0	1.85 (47.0)	7.90 (200.0)	37 (939)	49 (1244)
CSJA-3523	35 kV	1/0-350	1.03-1.49 (26.20-37.8)	2.05 (52.1)	2/0	1.40 (35.6)	5.50 (140.0)	33 (838)	43 (1090)
CSJA-3524	35 kV	350-1000	1.28-2.05 (34.54-52.0)	2.60 (66.0)	2/0	1.96 (50.0)	7.90 (200.0)	37 (939)	49 (1244)
CSJA-3525	35 kV	750-1500	1.63-2.36 (41.40-60.0)	2.60 (66.0)	2/0	2.36 (60.0)	7.90 (200.0)	37 (939)	49 (1244)
CSJA Joint With Copper Mechanical Shear Bolt Connector									
CSJA-1521M1	15 kV	2/0-350	0.69-1.20 (17.5-30.5)	1.50 (38.1)	1/0	0.376-0.736 (9.50-18.7)		29 (737)	39 (990)
CSJA-1522M1	15 kV	4/0-500	0.87-1.40 (22.1-35.6)	1.80 (46.0)	1/0	0.376-0.736 (9.50-18.7)		29 (737)	39 (990)
CSJA-1522M2	15 kV	350-750	0.87-1.40 (22.1-35.6)	1.80 (46.0)	1/0	0.570-0.945 (14.5-24.0)		29 (737)	39 (990)
CSJA-1523M2	15 kV	350-750	1.03-1.58 (26.2-40.0)	2.05 (52.1)	2/0	0.570-0.945 (14.5-24.0)		33 (838)	43 (1090)
CSJA-2822M1	28 kV	2/0-500	0.87-1.40 (22.1-35.6)	1.80 (46.0)	1/0	0.376-0.736 (9.50-18.7)		29 (737)	39 (990)
CSJA-2823M2	28 kV	350-750	1.03-1.58 (26.2-40.0)	2.05 (52.1)	2/0	0.570-0.945 (14.5-24.0)		33 (838)	43 (1090)
CSJA-2824M2	28 kV	500-750	1.28-2.05 (32.50-52.0)	2.60 (66.0)	2/0	0.570-0.945 (14.5-24.0)		37 (939)	49 (1244)
CSJA-3523M1	35 kV	2/0-350	1.03-1.49 (26.20-37.8)	2.05 (52.1)	2/0	0.376-0.736 (9.50-18.7)		33 (838)	43 (1090)
CSJA-3524M2	35 kV	350-750	1.28-2.05 (34.54-52.0)	2.60 (66.0)	2/0	0.570-0.945 (14.5-24.0)		37 (939)	49 (1244)
** Min./max. diameter over cable conductor accepted by the copper mechanical connector.*									
CSJA Joint with Aluminum Mechanical Shear Bolt Connector									
CSJA-1521M4	15 kV	#2-3/0	0.69-1.20 (17.5-30.5)	1.50 (38.1)	1/0	0.268-0.470 (6.80-11.9)		29 (737)	39 (990)
CSJA-1521M5	15 kV	#2-350	0.69-1.20 (17.5-30.5)	1.50 (38.1)	1/0	0.268-0.681 (6.80-17.3)		29 (737)	39 (990)
CSJA-1522M6	15 kV	350-750	0.87-1.40 (22.1-35.6)	1.80 (46.0)	1/0	0.423-0.813 (10.7-20.6)		29 (737)	39 (990)
CSJA-1522M7	15 kV	350-750	0.87-1.40 (22.1-35.6)	1.80 (46.0)	1/0	0.736-0.998 (18.7-25.3)		29 (737)	39 (990)
CSJA-1523M8	15 kV	350-750	1.03-1.58 (26.20-40.0)	2.05 (52.1)	2/0	0.616-0.998 (15.7-25.3)		33 (838)	43 (1090)
CSJA-1524M9	15 kV	750-1000	1.28-2.05 (32.50-52.0)	2.60 (66.0)	2/0	0.813-1.152 (20.6-29.2)		37 (939)	49 (1244)
CSJA-2822M5	28 kV	#1-350	0.87-1.40 (22.1-35.6)	1.80 (46.0)	1/0	0.268-0.681 (6.80-17.3)		29 (737)	39 (990)
CSJA-2822M6	28 kV	4/0-500	0.87-1.40 (22.1-35.6)	1.80 (46.0)	1/0	0.423-0.813 (10.7-20.6)		29 (737)	39 (990)
CSJA-2823M8	28 kV	350-750	1.03-1.58 (26.20-40.0)	2.05 (52.1)	2/0	0.616-0.998 (15.7-25.3)		33 (838)	43 (1090)
CSJA-2824M8	28 kV	500-750	1.28-2.05 (32.50-52.0)	2.60 (66.0)	2/0	0.616-0.998 (15.7-25.3)		37 (939)	49 (1244)
CSJA-2824M9	28 kV	750-1000	1.28-2.05 (32.50-52.0)	2.60 (66.0)	2/0	0.813-1.152 (20.60-29.2)		37 (939)	49 (1244)
CSJA-3523M5	35 kV	1/0-350	1.03-1.49 (26.20-37.8)	2.05 (52.1)	2/0	0.268-0.681 (6.8-17.3)		33 (838)	43 (1090)
CSJA-3524M8	35 kV	350-750	1.28-2.05 (34.54-52.0)	2.60 (66.0)	2/0	0.616-0.998 (15.7-25.3)		37 (939)	49 (1244)
CSJA-3524M9	35 kV	750-1000	1.28-2.05 (34.54-52.0)	2.60 (66.0)	2/0	0.813-1.152 (20.60-29.2)		37 (939)	49 (1244)
CSJA-3525M10	35 kV	1000-1250	1.63-2.36 (41.40-60.0)	2.60 (66.0)	2/0	1.060-1.251 (23.0-31.7)		37 (939)	49 (1244)
CSJA-3525M11	35 kV	1500	1.63-2.36 (41.40-60.0)	2.60 (66.0)	2/0	1.217-1.390 (30.9-35.3		37 (939)	49 (1244)
** Min/max diameter over cable conductor accepted by the aluminum mechanical connector.*									

CSJA JCN/EG In-line Cold Shrinkable Joints

FEATURES

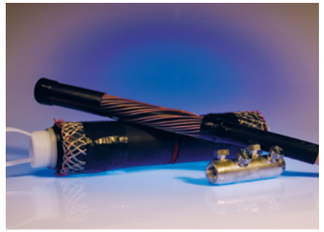
- Total length of the splice body on the holdout is 14 to 19 inches providing a compact design
- Integrated electrical stress control enhanced by factory molded stress cones and Faraday cage
- Void filling stress relief mastics are not necessary
- Proven shield continuity concept. The neutral wires are connected externally. The integrated pre-expanded neutral sock is connected to the neutral wires by a constant force spring. This provides the metallic shielding system to the cable joint
- The joint accepts both mechanical and compression connectors
- Meets IEEE-404 standard requirements

APPLICATIONS

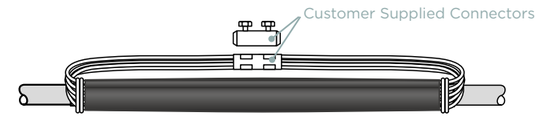
- Cold shrinkable joint for 15 kV through 35 kV. It is designed to splice jacketed concentric neutral (JCN) cables

BENEFITS

- This cable joint has a pre-expanded EPDM rejacketing sleeve and an integrated neutral sock
- The “All-in-One” design is easy to install with minimal steps and short installation time
- A pre-expanded, single-piece silicone rubber joint body with high mechanical expansion capability allows a wide application range
- The silicone rubber body provides high dielectric strength, high tear strength, low tension set, and excellent low temperature recovery
- An ergonomically designed spiral holdout provides a smooth installation with low release forces



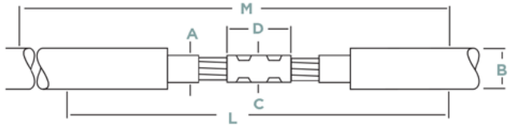




Each silicone splice body is factory tested to include AC withstand and partial discharge in accordance with IEEE-404 production tests.

ADDITIONAL PRODUCT INFORMATION

- Selections are based on the typical dimensions of 100% insulated cables, manufactured in accordance with AEIC standard. Nominal insulation thickness (100%): 15 kV: 175mils, 25 kV: 260mils, 35 kV: 345mils.
- Select the appropriate catalog number. Use the insulation OD, jacket OD and the neutral sock equivalent range as the final ordering criteria. To ensure proper parking diameter, calculate jacket OD with concentric neutrals folded back over jacket.
- For mechanical shear bolt connector included in the kit confirm the correct connector selection according to the Min/Max diameter over the cable conductor from the tables.
- For other applications or if you have any questions, contact your TE representative.
- Standard package: 1 kit/box
- Related test report: EDR-5430, EDR-5455
- For Al Mechanical shear bolt connector information request data sheet 9-1773440-4 and for CU request 165972.



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Voltage Class	Nominal Cable Range	Min - Max Insulation O.D. (A)	Jacket O.D. (max) (B)	Max Connector Dimensions		Kit Installed Length (L)	Required Install Space (M)
					O.D. (C)	Length (D)		
CSJA JCN/EG Joint Without Connector								
CSJA-JCN/EG-1511	15 kV	#2-350	0.69-1.20 (17.5-30.5)	1.50 (38.1)	1.30 (33.0)	5.50 (140.0)	29 (737)	37 (940)
CSJA-JCN/EG-1512	15 kV	4/0-750	0.87-1.40 (22.1-35.6)	1.80 (46.0)	1.50 (38.0)	5.50 (140.0)	29 (737)	37 (940)
CSJA-JCN/EG-1513	15 kV	350-1000	1.03-1.58 (26.2-40.0)	2.05 (52.1)	1.65 (42.0)	6.69 (170.0)	33 (838)	41 (1041)
CSJA-JCN/EG-1514	15 kV	750-1250	1.28-2.05 (32.50-52.0)	2.60 (66.0)	1.85 (47.0)	7.90 (200.0)	37 (939)	48 (1219)
CSJA-JCN/EG-2812	28 kV	#1-500	0.87-1.40 (22.1-35.6)	1.80 (46.0)	1.50 (38.0)	5.50 (140.0)	29 (737)	37 (940)
CSJA-JCN/EG-2813	28 kV	4/0-750	1.03-1.58 (26.20-40.0)	2.05 (52.1)	1.65 (42.0)	6.69 (170.0)	33 (838)	41 (1041)
CSJA-JCN/EG-2814	28 kV	500-1250	1.28-2.05 (32.50-52.0)	2.60 (66.0)	1.85 (47.0)	7.90 (200.0)	37 (939)	48 (1219)
CSJA-JCN/EG-3513	35 kV	1/0-350	1.03-1.49 (26.20-37.8)	2.05 (52.1)	1.40 (35.6)	5.50 (140.0)	33 (838)	41 (1041)
CSJA-JCN/EG-3514	35 kV	350-1000	1.28-2.05 (34.54-52.0)	2.60 (66.0)	1.96 (50.0)	7.90 (200.0)	37 (939)	48 (1219)
CSJA-JCN/EG-3515	35 kV	750-1500	0.63-2.36 (41.40-60.0)	2.60 (66.0)	2.36 (60.0)	7.90 (200.0)	37 (939)	48 (1219)

Catalog Number	Voltage Class	Nominal Cable Range	Min -Max Insulation O.D. (A)	Jacket O.D. (max) (B)	Min - Max Dia. Over Cable Conductor*	Kit Installed Length (L)	Required Install Space (M)
CSJA JCN/EG Joint With Copper mechanical Shear Bolt Connector*							
CSJA-JCN/EG-1511M1	15 kV	2/0-350	0.69-1.20 (17.5-30.5)	1.50 (38.1)	0.376-0.736 (9.50-18.7)	29 (737)	37 (940)
CSJA-JCN/EG-1512M1	15 kV	4/0-500	0.87-1.40 (22.1-35.6)	1.80 (46.0)	0.376-0.736 (9.50-18.7)	29 (737)	37 (940)
CSJA-JCN/EG-1512M2	15 kV	350-750	0.87-1.40 (22.1-35.6)	1.80 (46.0)	0.570-0.945 (14.5-24.0)	29 (737)	37 (940)
CSJA-JCN/EG-1513M2	15 kV	350-750	1.03-1.58 (26.2-40.0)	2.05 (52.1)	0.570-0.945 (14.5-24.0)	33 (838)	41 (1041)
CSJA-JCN/EG-2812M1	28 kV	2/0-500	0.87-1.40 (22.1-35.6)	1.80 (46.0)	0.376-0.736 (9.50-18.7)	29 (737)	37 (940)
CSJA-JCN/EG-2813M2	28 kV	350-750	1.03-1.58 (26.2-40.0)	2.05 (52.1)	0.570-0.945 (14.5-24.0)	33 (838)	41 (1041)
CSJA-JCN/EG-2814M2	28 kV	500-750	1.28-2.05 (32.50-52.0)	2.60 (66.0)	0.570-0.945 (14.5-24.0)	37 (939)	48 (1219)
CSJA-JCN/EG-3513M1	35 kV	2/0-350	1.03-1.49 (26.20-37.8)	2.05 (52.1)	0.376-0.736 (9.50-18.7)	33 (838)	41 (1041)
CSJA-JCN/EG-3514M2	35 kV	350-750	1.28-2.05 (34.54-52.0)	2.60 (66.0)	0.570-0.945 (14.5-24.0)	37 (939)	48 (1219)
** Min/max diameter over cable conductor accepted by the copper mechanical connector.*							
CSJA JCN/EG Joint With Aluminum Mechanical Shear Bolt Connector**							
CSJA-JCN/EG-1511M4	15 kV	#2-3/0	0.69-1.20 (17.5-30.5)	1.50 (38.1)	0.268-0.470 (6.80-11.9)	29 (737)	37 (940)
CSJA-JCN/EG-1511M5	15 kV	#2-350	0.69-1.20 (17.5-30.5)	1.50 (38.1)	0.268-0.681 (6.80-17.3)	29 (737)	37 (940)
CSJA-JCN/EG-1512M6	15 kV	4/0-500	0.87-1.40 (22.1-35.6)	1.80 (46.0)	0.423-0.813 (10.7-20.6)	29 (737)	37 (940)
CSJA-JCN/EG-1512M7	15 kV	500-750	0.87-1.40 (22.1-35.6)	1.80 (46.0)	0.736-0.998 (18.7-25.3)	29 (737)	37 (940)
CSJA-JCN/EG-1513M8	15 kV	350-750	1.03-1.58 (26.20-40.0)	2.05 (52.1)	0.616-0.998 (15.7-25.3)	33 (838)	41 (1041)
CSJA-JCN/EG-1514M9	15 kV	750-1000	1.28-2.05 (32.50-52.0)	2.60 (66.0)	0.813-1.152 (20.6-29.2)	37 (939)	48 (1219)
CSJA-JCN/EG-2812M5	28 kV	#1-350	0.87-1.40 (22.1-35.6)	1.80 (46.0)	0.268-0.681 (6.80-17.3)	29 (737)	39 (990)
CSJA-JCN/EG-2812M6	28 kV	4/0-500	0.87-1.40 (22.1-35.6)	1.80 (46.0)	0.423-0.813 (10.7-20.6)	29 (737)	39 (990)
CSJA-JCN/EG-2813M8	28 kV	350-750	1.03-1. 58 (26.20-40.0)	2.05 (52.1)	0.616-0.998 (15.7-25.3)	33 (838)	41 (1041)
CSJA-JCN/EG-2814M8	28 kV	500-750	1.28-2.05 (32.50-52.0)	2.60 (66.0)	0.616-0.998 (15.7-25.3)	37 (939)	48 (1219)
CSJA-JCN/EG-2814M9	28 kV	750-1000	1.28-2.05 (32.50-52.0)	2.60 (66.0)	0.813-1.152 (20.60-29.2)	37 (939)	48 (1219)
CSJA-JCN/EG-3513M5	35 kV	1/0-350	1.03-1.49 (26.20-37.8)	2.05 (52.1)	0.268-0.681 (6.8-17.3)	33 (838)	41 (1041)
CSJA-JCN/EG-3514M8	35 kV	350-750	1.28-2.05 (34.54-52.0)	2.60 (66.0)	0.616-0.998 (15.7-25.3)	37 (939)	48 (1219)
CSJA-JCN/EG-3514M9	35 kV	750-1000	1.28-2.05 (34.54-52.0)	2.60 (66.0)	0.813-1.152 (20.60-29.2)	37 (939)	48 (1219)
CSJA-JCN/EG-3515M9	35 kV	750-1000	1.63-2.36 (41.40-60.0)	2.60 (66.0)	0.813-1.152 (20.60-29.2)	37 (939)	48 (1219)
CSJA-JCN/EG-3515M10	35 kV	1000-1250	1.63-2.36 (41.40-60.0)	2.60 (66.0)	1.060-1.251 (23.0-31.7)	37 (939)	48 (1219)
CSJA-JCN/EG-3515M11	35 kV	1500	1.63-2.36 (41.40-60.0)	2.60 (66.0)	1.217-1.390 (30.9-35.3)	37 (939)	48 (1219)
*** Min/max diameter over cable conductor accepted by the aluminum mechanical connector.*							

CSJG In-line Cold Shrinkable Joints

FEATURES

- The splice consists of a pre-expanded silicone body on a unique holdout design and separate rejacketing system
- A pre-expanded, single piece silicone rubber body with high mechanical expansion capability which allows a wide application range
- An ergonomically designed spiral holdout provides a smooth installation with low release forces
- Integrated electrical stress control enhanced by factory molded stress cones and a Faraday cage
- Meets IEEE-404 standard requirements

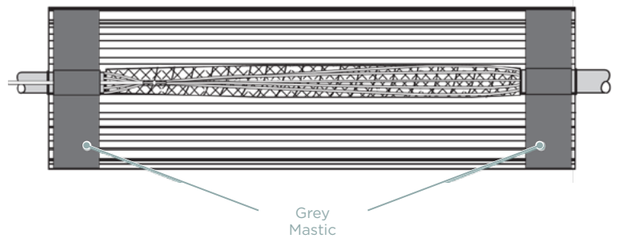
APPLICATIONS

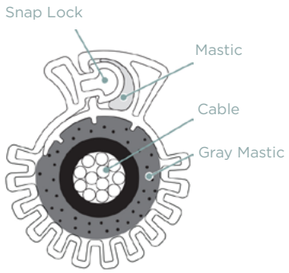
- Cold shrinkable joint for 15 kV through 35 kV. It is designed to splice jacketed concentric neutral (JCN) cables

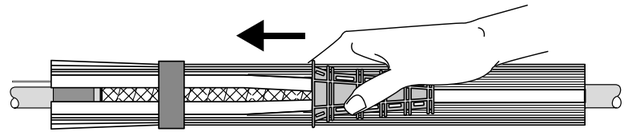
BENEFITS

- This design is easy to install with minimal steps and short installation time
- The rejacketing system is a cold applied wraparound sleeve designed to seal the entire splice and provide mechanical and environmental protection for direct buried installation
- Both mechanical and compression connectors can be used



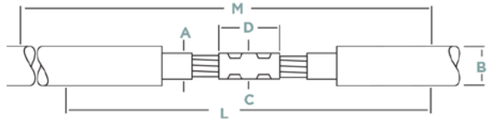






ADDITIONAL PRODUCT INFORMATION

- Selections are based on the typical dimensions of 100% insulated cables, manufactured in accordance with AEIC standard. Nominal insulation thickness (100%): 15 kV: 175 mils, 25 kV: 260 mils, 35 kV: 345 mils.
- Select the appropriate catalog number. Use the insulation OD and jacket OD range as the final ordering criteria.
- For mechanical shear bolt connector included in the kit confirm the correct connector selection according to the Min/Max diameter over the cable conductor from the tables.
- Standard package: 1 kit/box.
- Related test reports: EDR-5430, EDR-5507, EDR-5455.



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Voltage Class	Nominal Cable Range	Min - Max Insulation O.D. (A)	Max Connector Dimensions		Kit Installed Length (L)	Required Install Space (M)
				O.D. (C)	Length (D)		
CSJA JCN/EG Joint Without Connector							
CSJG-1511	15 kV	#2-350	0.69-1.20 (17.5-30.50)	1.30 (33.0)	5.50 (140.0)	33 (850)	42 (1060)
CSJG-1512	15 kV	4/0-750	0.87-1.40 (22.1-35.60)	1.50 (38.0)	5.50 (140.0)	33 (850)	42 (1060)
CSJG-1513	15 kV	350-1000	1.03-1.58 (26.2-40.0)	1.65 (42.0)	6.69 (170.0)	41 (1050)	50 (1270)
CSJG-1514	15 kV	750-1250	1.28-2.05 (32.50-52.0)	1.85 (47.0)	7.90 (200.0)	41 (1050)	55 (1390)
CSJG-2812	28 kV	#1-500	0.87-1.40 (22.1-35.60)	1.50 (38.0)	5.50 (140.0)	33 (850)	42 (1060)
CSJG-2813	28 kV	4/0-750	1.03-1.58 (26.20-40.0)	1.65 (42.0)	6.69 (170.0)	41 (1050)	50 (1270)
CSJG-2814	28 kV	500-1250	1.28-2.05 (32.50-52.0)	1.85 (47.0)	7.90 (200.0)	41 (1050)	55 (1390)
CSJG-3513	35 kV	1/0-350	1.03-1.49 (26.20-37.80)	1.40 (35.6)	5.50 (140.0)	41 (1050)	50 (1270)
CSJG-3514	35 kV	350-1000	1.28-2.05 (34.54-52.0)	1.96 (50.0)	7.90 (200.0)	41 (1050)	55 (1390)
CSJG-3515	35 kV	750-1250	1.63-2.36 (41.40-60.0)	2.36 (60.0)	7.90 (200.0)	41 (1050)	55 (1390)

Catalog Number	Voltage Class	Nominal Cable Range	Min - Max Insulation O.D. (A)	Min - Max Dia. Over Cable Conductor	Kit Install Length (L)	Required Install Space (M)
CSJG Joint with Copper Shear Bolt Connector*						
CSJG-1511M1	15 kV	2/0-350	0.69-1.20 (17.5-30.50)	0.376-0.736 (9.50-18.70)	33 (850)	42 (1060)
CSJG-1512M1	15 kV	4/0-500	0.87-1.40 (22.1-35.60)	0.376-0.736 (9.50-18.70)	33 (850)	42 (1060)
CSJG-1512M2	15 kV	350-750	0.87-1.40 (22.1-35.60)	0.570-0.945 (14.5-24.0)	33 (850)	42 (1060)
CSJG-1513M2	15 kV	350-750	1.03-1.58 (26.2-40.0)	0.570-0.945 (14.5-24.0)	41 (1050)	50 (1270)
CSJG-2812M1	28 kV	2/0-500	0.87-1.40 (22.1-35.60)	0.376-0.736 (9.50-18.70)	33 (850)	42 (1060)
CSJG-2813M2	28 kV	350-750	1.03-1.58 (26.2-40.0)	0.570-0.945 (14.5-24.0)	41 (1050)	50 (1270)
CSJG-2814M2	28 kV	500-750	1.28-2.05 (32.50-52.0)	0.570-0.945 (14.5-24.0)	41 (1050)	55 (1390)
CSJG-3513M1	35 kV	2/0-350	1.03-1.49 (26.20-37.80)	0.376-0.736 (9.50-18.70)	41 (1050)	50 (1270)
CSJG-3514M2	35 kV	350-750	1.28-2.05 (34.54-52.0)	0.570-0.945 (14.5-24.0)	41 (1050)	55 (1390)
** Min/max diameter over cable conductor accepted by the copper mechanical connector.*						
CSJG Joint with Aluminum Shear Bolt Connector**						
CSJG-1511M4	15 kV	#2-3/0	0.69-1.20 (17.5-30.50)	0.268-0.470 (6.80-11.9)	33 (850)	42 (1060)
CSJG-1511M5	15 kV	#2-350	0.69-1.20 (17.5-30.50)	0.268-0.681 (6.80-17.3)	33 (850)	42 (1060)
CSJG-1512M6	15 kV	4/0-500	0.87-1.40 (22.1-35.60)	0.423-0.813 (10.7-20.6)	33 (850)	42 (1060)
CSJG-1512M7	15 kV	500-750	0.87-1.40 (22.1-35.60)	0.736-0.998 (18.7-25.3)	33 (850)	42 (1060)
CSJG-1513M8	15 kV	350-750	1.03-1.58 (26.20-40.0)	0.616-0.998 (15.7-25.3)	41 (1050)	50 (1270)
CSJG-1514M9	15 kV	750-1000	1.28-2.05 (32.50-52.0)	0.813-1.152 (20.6-29.2)	41 (1050)	55 (1390)
CSJG-2812M5	28 kV	#1-350	0.87-1.40 (22.1-35.60)	0.268-0.681 (6.80-17.3)	33 (850)	42 (1060)
CSJG-2812M6	28 kV	4/0-500	0.87-1.40 (22.1-35.60)	0.423-0.813 (10.7-20.6)	33 (850)	42 (1060)
CSJG-2813M8	28 kV	350-750	1.03-1.58 (26.20-40.0)	0.616-0.998 (15.7-25.3)	41 (1050)	50 (1270)
CSJG-2814M8	28 kV	500-750	1.28-2.05 (32.50-52.0)	0.616-0.998 (15.7-25.3)	41 (1050)	55 (1390)
CSJG-2814M9	28 kV	750-1000	1.28-2.05 (32.50-52.0)	0.813-1.152 (20.60-29.2)	41 (1050)	55 (1390)
CSJG-3513M5	35 kV	1/0-350	1.03-1.49 (26.20-37.80)	0.268-0.681 (6.8-17.3)	41 (1050)	50 (1270)
CSJG-3514M8	35 kV	350-750	1.28-2.05 (34.54-52.0)	0.616-0.998 (15.7-25.3)	41 (1050)	55 (1390)
CSJG-3514M9	35 kV	750-1000	1.28-2.05 (34.54-52.0)	0.813-1.152 (20.60-29.2)	41 (1050)	55 (1390)
CSJG-3515M10	35 kV	1000-1250	1.63-2.36 (41.40-60.0)	1.060-1.251 (23.0-31.7)	41 (1050)	55 (1390)
*** Min/max diameter over cable conductor accepted by the aluminum mechanical connector.*						

CSJ-SR In-Line Cold Shrinkable Joints

FEATURES

- Separate rejacketing allows neutrals to pass over splice and are protected by robust EPDM rejacketing
- Ergonomically designed spiral holdout provides a smooth installation with low release forces
- Total length of the splice body on the holdout is 19 in/48.25 cm providing a compact design
- Pre-expanded, single piece silicone rubber joint body with high mechanical expansion capability allows a wide application range

APPLICATIONS

- 1/C SHIELDED POWER CABLES (15 kV - 35 kV)
- Separate rejacketing sleeve for 15 through 35 kV
- Use to splice JCN, BCN and flat strap neutral cables

BENEFITS

- Allows the cable's neutrals to pass under the protective EPDM for a single-point connection, ensuring the full ampacity of the neutrals are maintained
- The joint accepts both mechanical and compression connectors
- When Shear Bolt connectors are used, this is a totally crimpless system



ADDITIONAL PRODUCT INFORMATION

- Selections are based on the typical dimensions of 100% insulated cables, manufactured in accordance with AEIC standard. Nominal insulation thickness (100%): 15 kV: 175 mils, 25 kV: 260 mils, 35 kV: 345 mils.
- Select the appropriate catalog number. Use the insulation OD and jacket OD range as the final ordering criteria.
- For mechanical shear bolt connector included in the kit confirm the correct connector selection according to the Min./Max. diameter over the cable conductor from the tables.
- Standard package: 1 kit/box.
- Related test reports: EDR-5653.

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Voltage Class	Nominal Cable Range	Min - Max Insulation O.D. (A)	Max Connector Dimensions		Kit Installed Length (L)	Required Install Space (M)
				O.D. (C)	Length (D)		
CSJ-SR Joint without Connector							
CSJ-SR-1513	15 kV	350 - 1000	1.03 - 1.58 (26.2 - 40.0)	1.65 (42.0)	6.69 (170.0)	33 (838)	43 (1090)
CSJ-SR-1514	15 kV	750 - 1250	1.28 - 2.05 (32.5 - 52.0)	1.85 (47.0)	7.90 (200.0)	37 (939)	49 (1244)
CSJ-SR-2813	28 kV	4/0 - 750	1.03 - 1.58 (26.2 - 40.0)	1.65 (42.0)	6.69 (170.0)	33 (838)	43 (1090)
CSJ-SR-2814	28 kV	500 - 1250	1.28 - 2.05 (32.5 - 52.0)	1.85 (47.0)	7.90 (200.0)	37 (939)	49 (1244)
CSJ-SR-3513	35 kV	1/0 - 350	1.03 - 1.49 (26.2 - 37.8)	1.40 (35.6)	5.50 (140.0)	33 (838)	43 (1090)
CSJ-SR-3514	35 kV	350 - 1000	1.36 - 2.05 (34.5 - 52.0)	1.96 (50.0)	7.90 (200.0)	37 (939)	49 (1244)
CSJ-SR-3515	35 kV	750 - 1500	1.63 - 2.36 (41.4 - 60.0)	2.36 (60.0)	7.90 (200.0)	37 (939)	49 (1244)
CSJ-SR Joint with Copper Mechanical Shear Bolt Connector							
CSJ-SR-1513M2	15 kV	350 - 750	1.03 - 1.58 (26.2 - 40.0)	0.570 - 0.945 (14.5 - 24.0)		33 (838)	43 (1090)
CSJ-SR-1514M3	15 kV	750 - 1000	1.28 - 2.05 (32.5 - 52.0)	0.736 - 1.152 (18.7 - 29.2)		37 (939)	49 (1244)
CSJ-SR-2813M2	28 kV	350 - 750	1.03 - 1.58 (26.2 - 40.0)	0.570 - 0.945 (14.5 - 24.0)		33 (838)	43 (1090)
CSJ-SR-2814M2	28 kV	500 - 750	1.28 - 2.05 (32.5 - 52.0)	0.570 - 0.945 (14.5 - 24.0)		37 (939)	49 (1244)
CSJ-SR-2814M3	28 kV	500 - 1000	1.28 - 2.05 (32.5 - 52.0)	0.736 - 1.152 (18.7 - 29.2)		37 (939)	49 (1244)
CSJ-SR-3513M1	35 kV	2/0 - 350	1.03 - 1.49 (26.2 - 37.8)	0.376 - 0.736 (9.5 - 18.7)		33 (838)	43 (1090)
CSJ-SR-3514M2	35 kV	350 - 750	1.36 - 2.05 (34.54 - 52.0)	0.570 - 0.945 (14.5 - 24.0)		37 (939)	49 (1244)
CSJ-SR-3515M3	35 kV	750 - 1000	1.63 - 2.36 (41.4 - 60.0)	0.736 - 1.152 (18.7 - 29.2)		37 (939)	49 (1244)
CSJ-SR Joint with Aluminum Mechanical Shear Bolt Connector							
CSJ-SR-1513M8	15 kV	350 - 750	1.03 - 1.58 (26.2 - 40.0)	0.616 - 0.998 (15.7 - 25.3)		33 (838)	43 (1090)
CSJ-SR-1514M9	15 kV	750 - 1000	1.28 - 2.05 (32.5 - 52.0)	0.813 - 1.152 (20.6 - 29.2)		37 (939)	49 (1244)
CSJ-SR-2813M8	28 kV	350 - 750	1.03 - 1.58 (26.2 - 40.0)	0.616 - 0.998 (15.7 - 25.3)		33 (838)	43 (1090)
CSJ-SR-2814M8	28 kV	500 - 750	1.28 - 2.05 (32.5 - 52.0)	0.616 - 0.998 (15.7 - 25.3)		37 (939)	49 (1244)
CSJ-SR-2814M9	28 kV	600 - 1000	1.28 - 2.05 (32.5 - 52.0)	0.813- 1.152 (20.6 - 29.2)		37 (939)	49 (1244)
CSJ-SR-3513M5	35 kV	1/0 - 350	1.03 - 1.49 (26.2 - 37.8)	0.268 - 0.681 (6.8 - 17.3)		33 (838)	43 (1090)
CSJ-SR-3514M8	35 kV	350 - 750	1.36 - 2.05 (34.54 - 52.0)	0.616 - 0.998 (15.7 - 25.3)		37 (939)	49 (1244)
CSJ-SR-3514M9	35 kV	600 - 1000	1.36 - 2.05 (34.54 - 52.0)	0.813- 1.152 (20.6 - 29.2)		37 (939)	49 (1244)
CSJ-SR-3515M10	35 kV	1250	1.63 - 2.36 (41.4 - 60.0)	1.060 - 1.251 (23.0 - 31.7)		37 (939)	49 (1244)
CSJ-SR-3515M11	35 kV	1500	1.63 - 2.36 (41.4 - 60.0)	1.217- 1.390 (30.9 - 35.3)		37 (939)	49 (1244)

Cold-Applied External Grounding Kit		
Catalog Number	**Length of Moisture Blocked Braid**	**Braid (AWG)**
CSJ-EG-1	24 (610)	#8
CSJ-EG-2	24 (610)	#6
CSJ-EG-3	24 (610)	#4

Ordering Information

1. Selections are based on the typical dimensions of 100% insulated cables, manufactured in accordance with AEIC standard. Nominal insulation thickness (100%): 15 kV:175mils, 25 kV:260mils, 35 kV:345mils.
2. Select the appropriate catalog number. Use the insulation OD, and jacket OD range as the final ordering criteria.
3. For mechanical connector included in the kit confirm the correct connector selection according to the Min/Max diameter over the cable conductor from the tables.
4. If external grounding is required, order the CSJ-EG kit.
5. For other applications or if you have any questions, contact your TE representative.
6. Standard package: 1 kit per box.
7. Related test reports: EDR-5653
8. For AL Mechanical connector information request datasheet 9-1773440-4 and for CU request 165972.

3/C CSJA Cold Shrinkable Joints

FEATURES

- The splice consists of three pre-expanded silicone bodies on a unique holdout and a separate rejacketing system
- An ergonomically designed spiral holdout provides a smooth installation with low release forces
- Integrated electrical stress control enhanced by factory molded stress cones and a Faraday cage
- Meets IEEE-404 standard requirements

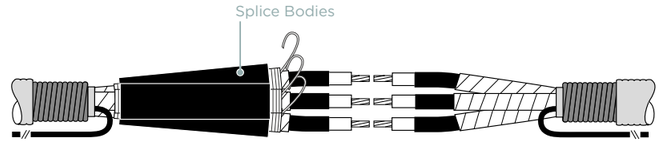
APPLICATIONS

- For 15 kV through 35 kV. Designed to splice 3/C Armored Cables
- The GMRS rejacketing system is a cold-applied wrap around sleeve that eliminates parking distance

BENEFITS

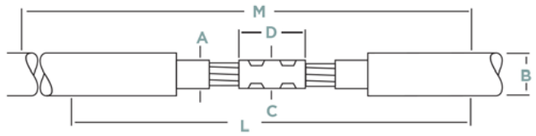
- This design is easy to install with minimal steps and a short installation time
- The rejacketing system is a cold applied wraparound sleeve designed to seal the entire splice and provide mechanical and environmental protection for direct buried installations
- Both mechanical and compression connectors can be used
- Pre-expanded, single piece silicone rubber body with high mechanical expansion capability which allows a wide application range





ADDITIONAL PRODUCT INFORMATION

- Selections are based on the typical dimensions of 100% insulated cables, manufactured in accordance with AEIC standard. Nominal insulation thickness (100%): 15 kV: 175 mils, 25 kV: 260 mils, 35 kV: 345 mils.
- Select the appropriate catalog number. Use the insulation OD and jacket OD range as the final ordering criteria.
- For mechanical shear bolt connector included in the kit confirm the correct connector selection according to the Min./Max. diameter over the cable conductor from the tables.
- Standard package: 1 kit/box.
- Related test reports: EDR-5530.



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Voltage Class	Nominal Cable Range	Min - Max Insulation O.D. (A)	Max Connector Dimensions		Kit Installed Length (L)	Required Install Space (M)
				O.D. (C)	Length (D)		
CSJA 3/C Joint without Connector							
CSJA-3-1521-ARMR	15 kV	#2-350	0.69-1.20 (17.5-30.5)	1.30 33.0)	5.50 (140.0)	65 (1650)	65 (1650)
CSJA-3-1522-ARMR	15 kV	4/0-750	0.87-1.40 (22.1-35.6)	1.50 38.0)	5.50 (140.0)	65 (1650)	65 (1650)
CSJA-3-1523-ARMR	15 kV	350-1000	1.03-1.58 (26.2-40.0)	1.65 (42.0)	6.69 (170.0)	71 (1800)	71 (1800)
CSJA-3-2822-ARMR	28 kV	#1-500	0.87-1.40 (22.1-35.6)	1.50 (38.0)	5.50 (140.0)	65 (1650)	65 (1650)
CSJA-3-2823-ARMR	28 kV	4/0-750	1.03-1.58 (26.2-40.0)	1.65 (42.0)	6.69 (170.0)	71 (1800)	71 (1800)
CSJA-3-3523-ARMR	35 kV	1/0-350	1.03-1.49 (26.2-37.8)	1.40 (35.6)	5.50 (140.0)	71 (1800)	71 (1800)
CSJA-3-3524-ARMR	35 kV	350-1000	1.36-1.63 (34.54-41.4)	1.62 (42.0)	6.69 (170)	71 (1800)	71 (1800)

Catalog Number	Voltage Class	Nominal Cable Range	Min - Max Insulation O.D. (A)	Min - Max Dia. Over Cable Conductor	Kit Installed Length (L)	Required Install Space (M)
CSJA-3/C Joint with Copper Shear Bolt Connector*						
CSJA-3-1521M1-ARMR	15 kV	#2-350	0.69-1.20 (17.5-30.5)	0.376-0.736 (9.5-18.7)	65 (1650)	65 (1650)
CSJA-3-1522M1-ARMR	15 kV	4/0-500	0.87-1.40 (22.1-35.6)	0.376-0.736 (9.5-18.7)	65 (1650)	65 (1650)
CSJA-3-1522M2-ARMR	15 kV	350-750	0.87-1.40 (22.1-35.6)	0.570-0.945 (14.5-24.0)	71 (1800)	71 (1800)
CSJA-3-1523M3-ARMR	15 kV	500-1000	1.03-1.58 (26.2-40.0)	0.736-1.152 (18.7-29.3)	71 (1800)	71 (1800)
CSJA-3-2822M1-ARMR	28 kV	2/0-500	0.87-1.40 (22.1-35.6)	0.376-0.736 (9.5-18.7)	65 (1650)	65 (1650)
CSJA-3-2823M2-ARMR	28 kV	350-750	1.03-1.58 (26.2-40.0)	0.570-0.945 (14.5-24.0)	71 (1800)	71 (1800)
CSJA-3-3523M1-ARMR	35 kV	2/0-350	1.03-1.49 (26.2-37.8)	0.376-0.736 (9.5-18.7)	71 (1800)	71 (1800)
CSJA-3-3524M2-ARMR	35 kV	350-750	1.36-2.05 (34.54-54.0)	0.570-0.945 (14.5-24.0)	71 (1800)	71 (1800)
** Min/max diameter over cable conductor accepted by the copper mechanical connector.*						
CSJA-3/C Joint with Aluminum Shear Bolt Connector**						
CSJA-3-1521M4-ARMR	15 kV	#2-3/0	0.69-1.20 (17.5-30.5)	0.268-0.470 (6.8-11.9)	65 (1650)	65 (1650)
CSJA-3-1521M5-ARMR	15 kV	#2-350	0.69-1.20 (17.5-30.5)	0.268-0.681 (6.8-17.3)	65 (1650)	65 (1650)
CSJA-3-1522M6-ARMR	15 kV	4/0-500	0.87-1.40 (22.1-35.6)	0.423-0.813 (10.7-20.6)	71 (1800)	71 (1800)
CSJA-3-1522M7-ARMR	15 kV	500-750	0.87-1.40 (22.1-35.6)	0.736-0.998 (18.7-25.3)	71 (1800)	71 (1800)
CSJA-3-1523M8-ARMR	15 kV	350-750	1.03-1.58 (26.2-40.0)	0.616-0.998 (15.7-25.3)	71 (1800)	71 (1800)
CSJA-3-2822M5-ARMR	28 kV	#1-350	0.87-1.40 (22.1-35.6)	0.268-0.681 (6.8-17.3)	65 (1650)	65 (1650)
CSJA-3-2822M6-ARMR	28 kV	4/0-500	0.87-1.40 (22.1-35.6)	0.423-0.813 (10.7-20.6)	65 (1650)	65 (1650)
CSJA-3-2823M8-ARMR	28 kV	350-750	1.03-1.58 (26.2-40.0)	0.616-0.998 (15.7-25.3)	71 (1800)	71 (1800)
CSJA-3-3523M5-ARMR	35 kV	1/0-350	1.03-1.49 (26.2-37.8)	0.268-0.681 (6.8-17.3)	71 (1800)	71 (1800)
CSJA-3-3524M8-ARMR	35 kV	350-750	1.36-2.05 (34.54-54.0)	1.060-1.251 (23.0-31.7)	71 (1800)	71 (1800)
*** Min/max diameter over cable conductor accepted by the aluminum mechanical connector.*						

CSJU Cold Shrink Joints for Underground Residential Distribution Cables

FEATURES

- Pre-expanded, single piece silicone rubber joint body with high mechanical expansion capability allows a wide application range
- Pre-expanded EPDM rejacketing sleeve provides superior moisture and environmental sealing
- Option to include range- taking aluminum shear bolt or aluminum compression splice
- TE Raychem material proven by cold shrink products in service for decades
- Total length of the splice body on the holdout is 12 inches proving a compact design

APPLICATIONS

- Cold shrinkable joint for 15 kV through 25 kV. It is designed to splice jacketed concentric neutral (JCN) cables
- The CSJU-S, a product extention to the CSJU, is intended for use on other neutral types

BENEFITS

- All-in-One design is compact and requires less working space (trench) to install
- An ergonomically designed spiral holdout provides a smooth installation with low release forces
- Meets IEEE-404 requirements for 15 kV through 25 kV
- Each silicone splice body is factory tested to include AC withstand and partial discharge in accordance with IEEE-404 production tests
- Cold weather and impact testing executed to ensure top performance in challenging conditions



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Voltage Class	Nominal Cable Range	Min - Max Insulation O.D.	Max Jacket Dimensions O.D.	Min - Max Diameter Over Cable Conductor	
CSJU Joint without Connector						
CSJU-1511	15 kV	#2-4/0	0.64-0.99 (16.3 - 25.1)	1.26 (32.0)	1.00 (25.4)	3.25 (82.5)
CSJU-2511	25 kV	#1-2/0	0.84-1.03 (21.3 - 26.2)	1.26 (32.0)	1.00 (25.4)	3.25 (82.5)

Catalog Number	Voltage Class	Nominal Cable Range	Min - Max Insulation O.D.	Max Jacket Dimensions O.D.
CSJU Joint with Aluminum Mechanical Shear Bolt Connector				
CSJU-1511-SB1	15 kV	#2-1/0	0.64-0.99 (16.3 - 25.1)	1.26 (32.0)
CSJU-1511-SB2	15 kV	#2-4/0	0.64-0.99 (16.3 - 25.1)	1.26 (32.0)
CSJU-1511-SB2-TN	15 kV	#4-4/0	0.64-0.99 (16.3 - 25.1)	1.26 (32.0)
CSJU-2511-SB1	25 kV	#1-1/0	0.84-1.03 (21.3 - 26.2)	1.26 (32.0)
CSJU-2511-SB2	25 kV	#1-2/0	0.84-1.03 (21.3 - 26.2)	1.26 (32.0)
CSJU-2511-SB2-TN	25 kV	#1-2/0	0.84-1.03 (21.3 - 26.2)	1.26 (32.0)
CSJU Joint with Aluminum Compression Connector				
CSJU-1511-ALC0	15 kV	#2 STR-SOL, #1 SOL	0.64 - 0.99 (16.3 - 25.1)	1.26 (32.0)
CSJU-1511-ALC1	15 kV	#1 STR-CPT, 1/0 CPT-SOL	0.64 - 0.99 (16.3 - 25.1)	1.26 (32.0)
CSJU-1511-ALC2	15 kV	1/0 STR-CMPR, 2/0 CPT	0.64 - 0.99 (16.3 - 25.1)	1.26 (32.0)
CSJU-1511-ALC3	15 kV	2/0-STR-CMPR, 3/0 CPT	0.64 - 0.99 (16.3 - 25.1)	1.26 (32.0)
CSJU-1511-ALC4	15 kV	3/0 STR-CMPR, 4/0 CPT	0.64 - 0.99 (16.3 - 25.1)	1.26 (32.0)
CSJU-1511-ALC5	15 kV	4/0 STR-CMPR	0.64 - 0.99 (16.3 - 25.1)	1.26 (32.0)
CSJU-2511-ALC0	25 kV	#2 STR-SOL, #1 SOL	0.84 - 1.03 (21.3 - 26.2)	1.26 (32.0)
CSJU-2511-ALC1	25 kV	#1 STR-CPT, 1/0 CPT-SOL	0.84 - 1.03 (21.3 - 26.2)	1.26 (32.0)
CSJU-2511-ALC2	25 kV	1/0 STR-CMPR, 2/0 CPT	0.84 - 1.03 (21.3 - 26.2)	1.26 (32.0)
CSJU-2511-ALC3	25 kV	2/0-STR-CMPR, 3/0 CPT	0.84 - 1.03 (21.3 - 26.2)	1.26 (32.0)
**TN kits come with a #4-4/0 tin-plated aluminum Shear Bolt connector that is suitable for use on both aluminum & copper conductors*				

ADDITIONAL PRODUCT INFORMATION

- Selections are based on the typical dimensions of 100% insulated cables, manufactured in accordance with AEIC standard. Nominal insulation thickness (100%): 15 kV: 175mils, 25 kV: 260 mils.
- Select the appropriate catalog number using the insulation O.D. and jacket O.D. range as the final ordering criteria.
- For other applications or if you have questions, contact your TE representative.
- Standard package: 1 kit per box.
- Related test reports: EDR 5643, EDR 5644

HVT-50 1/C | 3/C Non-Shielded Power Cable Terminations (5 kV)

FEATURES

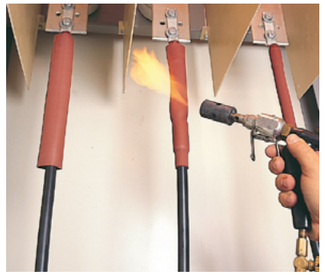
- Designed to withstand rigorous service conditions

APPLICATIONS

- Non-shielded polymeric terminations for 5 kV cable

BENEFITS

- The nontracking, heat-shrinkable insulation is simple to install and provides excellent UV stability



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Conductor Size (AWG/kcmil)	Insulation Diameter (min)	Jacket O.D. (max)
HVT-51	#4-2/0	0.45 (11)	0.85 (22)
HVT-52	3/0-500	0.70 (18)	1.30 (33)
HVT-53	750-1500	1.10 (28)	2.15 (55)

Installed length: 12 (300)

FOR THREE-CONDUCTOR 5 KV TERMINATIONS

Order three appropriate single-conductor terminations from the selection information above.
In addition, order the appropriate three-conductor modification kit (MOD-3-HVT) as follows:
MOD-3A-HVT for HVT-51 and HVT-52
MOD-3B-HVT for HVT-53

These MOD-3-HVT kits contain:
- 4 feet of tubing to rejacket each phase and ground conductor
- Sealant
- Plugs
- Cable breakout to seal the crotch area

ADDITIONAL PRODUTCT INFORMATION

- Select the appropriate catalog number. All selections are based on the typical dimensions of 100% insulated cables manufactured in accordance with the data contained in ICEA S-66-524, as well as the dimensions of commonly used connectors. Nominal insulation thickness (100%): 90 mils.
- For cables manufactured to other specifications, confirm selection with cable dimensions.
- Kits do not contain connectors; order compression, shear bolt, or solder connectors.
- Standard package:
  - HVT-50: 3 single-conductor kits/box.
  - MOD-3-HVT: 1 kit/box.
- Cable mounting brackets are available to accommodate cable diameters from 0.80-2.40 inches (20-61 mm).

HVT-Z-J/SJ Terminations with Built-in Stress Control

FEATURES

- When the tubing is shrunk down, the coating softens and sticks to irregular surfaces, providing moisture seals as well as electrical stress control.
- TE Raychem HVT-Z high-voltage terminations meet IEEE-48 standard Class I termination requirement

APPLICATIONS

- As an option, the HVT-Z can also be ordered with TE's new line of Aluminum Shear Bolt Terminals. These are range taking mechanical connectors that will accommodate a conductor range from #2 compact to 1000 kcmil stranded, Class B

BENEFITS

- Can be installed inverted or upright
- The main termination component consists of TE Raychem non-tracking tube together with a co-extruded stress control grading layer. This stress control layer is based on ceramic semi-conductor technology (ZnO) and provides superior discharge and impulse performance.
- Unlimited shelf life when stored in normal conditions



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Indoor Kit	Outdoor Kit	Min - Max Conductor Size		Insulation Dia (min - max)	Jacket O.D. (max)
15 kV*		**15 kV (100%)**	**15 kV (133%)**		
HVT-Z-151-J	**HVT-Z-151-SJ**	#2-#1 AWG		0.60-0.95	1.05
HVT-Z-152-J	**HVT-Z-152-SJ**	#2/0-250 kcmil	#2-4/0 AWG	0.80-1.05	1.45
HVT-Z-153-J	**HVT-Z-153-SJ**	350-500 kcmil	250-500 kcmil	1.05-1.40	1.9
HVT-Z-154-J	**HVT-Z-154-SJ**	750-1000 kcmil	750-1000 kcmil	1.25-2.00	2.5
25 kV/35 kV**		**25 kV**	**35 kV**		
HVT-Z-252/352-J	**HVT-Z-252/352-SJ**	#1-3.0 AWG		0.80-1.05	1.45
HVT-Z-253/353-J	**HVT-Z-253/353-SJ**	#4/0-500 kcmil	#1/0-4/0 AWG	1.05-1.40	1.9
HVT-Z-254/354-J	**HVT-Z-254/354-SJ**	750-1000 kcmil	250-1000 kcmil	1.25-2.00	2.5

**Installed Length 11.5' (300)*
***Installed Length 20' (500)*

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number. All selections are based on the typical dimensions of 100% and 133% insulated cables manufactured in accordance with the data contained in AEIC CS5 and AEIC CS6, as well as the dimensions of commonly used connectors. Nominal Insulation thickness (100%): 15 kV: 175 mils, 25 kV: 260 mils, 35 kV: 345 mils. Nominal thickness (133%): 15 kV: 220 mils.
- For cables manufactured to other specifications, confirm selection with cable dimensions.
- Kits do not contain connectors. Order compression, shear bolt, or solder connectors separately.
- Indoor (-J) kits are suitable for unjacketed and jacketed URD cable.
- Outdoor (-SJ) kits include skirts for outdoor use and are suitable for unjacketed and jacketed URD cable. To order additional skirts refer to Accessory and Tool section.
- Cable mounting brackets are available to accommodate cable diameters from 0.80-2.40 inches (20-46 mm) refer to Accessory and Tools section for ordering information.
- Standard package: 1 kit/box.
- Refer to the Application and Technical Specification section for testing information.
- Related test reports:
  Outdoor: 15 kV: EDR-5323, 25-35 kV: EDR-5338.
  Indoor: 15 kV: EDR-5322, 25-35 kV: EDR-5338.

HVT-Z-G/SG High Voltage Termination for Shielded Cables (5 kV-35 kV)

FEATURES

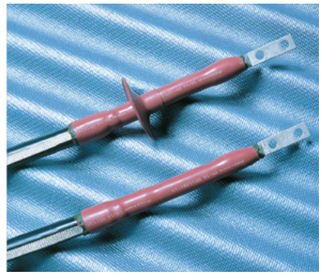
- When the tubing is shrunk down, the coating softens and sticks to irregular surfaces, providing moisture seals as well as electrical stress control
- TE Raychem HVT-Z high-voltage terminations meet IEEE-48 standard Class I termination requirement

APPLICATIONS

- The market's most popular heat shrink terminations!
- Designed for Copper Tape Shield, Wire Shield, Unishield, and Lead Sheath cables from 5 kV to 35 kV

BENEFITS

- The main termination component consists of TE Raychem non-tracking tube together with a co-extruded stress control grading layer. This stress control layer is based on ceramic semi-conductor technology (ZnO) and provides superior discharge and impulse performance.
- Unlimited shelf life when stored in normal conditions



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Indoor Kit	Outdoor Kit	Min - Max Conductor Size		Min - Max Insulation Dia	Jacket O.D. (max)
5/8 kV		**5 kV 0.90**	**8 kV 0.115**		
HVT-Z-80-G/SG		#4-#1 AWG	#6-#2 AWG	0.35-0.60 (9-15)	0.95 (24)
HVT-Z-81-G/SG		1/0-250 kcmil	#1-4/0 AWG	0.60-0.95 (15-24)	1.20 (30)
HVT-Z-82-G/SG		300-500 kcml	250-500 kcmil	0.80-1.25 (20-32)	1.50 (38)
HVT-Z-83-G/SG		600-1750 kcmil	600-1750 kcmil	1.10-1.75 (28-44)	2.10 (53)
HVT-Z-84-G/SG		1500-3500 kcmil	1500-2500 kcmil	1.60-2.45 (41-62)	2.75 (70)
Installed Length 11.5" (295)		*Can be cut shorter for use with MCK kits*		*No Skirts for Outdoor Operation**	
15 kV		**15 kV .175-.220**			
HVT-Z-151-G	**HVT-Z-151-SG**	#4-1/0 AWG		0.60-0.95 (15-24)	1.20 (30)
HVT-Z-152-G	**HVT-Z-152-SG**	2/0-350 kcmil		0.80-1.25 (20-32)	1.50 (38)
HVT-Z-153-G	**HVT-Z-153-SG**	400-1000 kcml		1.10-1.75 (28-44)	2.10 (53)
HVT-Z-154-G	**HVT-Z-154-SG**	1250-2500 kcmil		1.60-2.45 (41-62)	2.75 (70)
Installed Length 11.5" (295)				*1 Skirt for Outdoor Operation**	
25 kV/35 kV		**25 kV 0.260**	**35 kV 0.345**		
HVT-Z-252/352-G	**HVT-Z-252/352-SG**	#2-250 kcmil	#1-1/0 AWG	0.80-1.25 (20-32)	1.50 (38)
HVT-Z-253/353-G	**HVT-Z-253/353-SG**	300-750 kcmil	2/0-500 kcmil	1.10-1.75 (28-44)	2.10 (53)
HVT-Z-254/354-G	**HVT-Z-254/354-SG**	1000-2000 kcmil	750-1750 kcmil	1.60-2.45 (41-62)	2.75 (70)
Installed Length 19.0" (485)				*4 Skirts for Outdoor Operation**	

**Additional skirts sold separately. Refer to Accessory and Tool section.*

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Indoor Kit	Outdoor Kit	Min - Max Conductor Size		Min - Max Insulation Dia.	Jacket O.D. (max)
HVT-Z Termination with Aluminum Shear Bolt Terminal					
5/8 kV		**5 kV**	**8 kV**		
HVT-Z-81-G/SG-T5		1/0-250 kcmil	#1-4/0 AWG	0.60-0.95 (15-24)	1.20 (30)
HVT-Z-82-G/SG-T5		300-350 kcmil	250-350 kcmil	0.80-1.07 (20-27)	1.50 (38)
HVT-Z-82-G/SG-T8		350-500 kcmil	350-500 kcmil	0.85-1.25 (22-32)	1.50 (38)
HVT-Z-83-G/SG-T9		600-1000 kcmil	600-1000 kcmil	1.10-1.40 (28-36)	2.10 (53)
				*No Skirts for Outdoor Operation**	
15 kV		**15 kV**			
HVT-Z-151-G-T5	**HVT-Z-151-SG-T5**	#2-1/0 AWG		0.65-0.95 (17-24)	1.20 (30)
HVT-Z-152-G-T5	**HVT-Z-152-SG-T5**	2/0-350 kcmil		0.80-1.25 (20-32)	1.50 (38)
HVT-Z-153-G-T8	**HVT-Z-153-SG-T8**	400-500 kcmil		1.10-1.355 (28-34)	2.10 (53)
HVT-Z-153-G-T9	**HVT-Z-153-SG-T9**	600-1000 kcmil		1.215-1.65 (32-42)	2.10 (53)
				*1 Skirt for Outdoor Operation**	
25 kV/35 kV		**25 kV (0.260")**	**35 kV (0.345")**		
HVT-Z-252/352-G-T5	**HVT-Z-252/352-SG-T5**	#2-250 kcmil	#1-1/0 AWG	0.80-1.25 (20-32)	1.50 (38)
HVT-Z-253/353-G-T5	**HVT-Z-253/353-SG-T5**	300-350 kcmil	2/0-350 kcmil	1.10-1.50 (28-38)	2.0 (51)
HVT-Z-253/353-G-T8	**HVT-Z-253/353-SG-T8**	350-750 kcmil	350-500 kcmil	1.185-1.70 (30-43)	2.10 (53)
HVT-Z-254/354-G-T9	**HVT-Z-254/354-SG-T9**	600-1000 kcmil	600-1000 kcmil	1.60-1.79 (41-45)	2.75 (70)
				*4 Skirts for Outdoor Operation**	

**Additional skirts sold separately. Refer to Accessory and Tool section.*

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number. All selections are based on the typical dimensions of 100% and 133% insulated cables manufactured in accordance with the data contained in AEIC CS5 and AEIC CS6, as well as the dimensions of commonly used connectors. Nominal Insulation thickness (100%): 15 kV: 175 mils, 25 kV: 260 mils, 35 kV: 345 mils. Nominal thickness (133%): 15 kV: 220 mils.
- For cables manufactured to other specifications, confirm selection with cable dimensions.
- Some kits do not contain connectors. Order compression, shear bolt, or solder connectors separately.
- Cable mounting brackets are available to accommodate cable diameters from 0.80-2.40 inches (20-46 mm) refer to Accessory and Tools section for ordering information.
- Standard package: 1 kit/box.
- Refer to the Application and Technical Specification section for testing information.
- Related test reports: 15 kV: EDR-5322, EDR-5323, 25 kV: EDR-5473 35 kV: EDR-5481

MOD-3-HVT 3/C Modification Kits

FEATURES

- Cut-to-length rejacketing material for phases and grounds included in all kits
- 3A and 3B kits include a six-legged, environmental crotch sealing boot (adhesive lined) and plugs for unused grounding legs

APPLICATIONS

- Use TE Raychem MOD-3-HVT kits in conjunction with three 1/C terminations to seal and rejacket the cable terminations (5 - 35 kV)

BENEFITS

- MOD-3-HVT kits are available for both unsealed and sealed applications
- Comprised of high quality materials for a long, trouble free service life
- Unlimited shelf life when stored in normal conditions



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Indoor (Without Breakout Boot)	
1/C Termination Indoor	**MOD-3-HVT Kit**
5-8 kV	**Indoor**
HVT-Z-80-G/SG	MOD-3X-HVT*
HVT-Z-81-G/SG	MOD-3X-HVT
HVT-Z-82-G/SG	MOD-3X-HVT
HVT-Z-83-G/SG	MOD-3Y-HVT
HVT-Z-84-G/SG	MOD-3Y-HVT
15 kV	
HVT-Z-151-G	MOD-3X-HVT
HVT-Z-152-G	MOD-3X-HVT
HVT-Z-153-G	MOD-3Y-HVT
HVT-Z-154-G	MOD-3Y-HVT
25 kV and 35 kV	
HVT-Z-252/352-G	MOD-3X-HVT
HVT-Z-253/353-G	MOD-3Y-HVT
HVT-Z-254/354-G	MOD-3Y-HVT
**Confirm insulation diameter and jacket OD information with table below*	

Outdoor/Indoor (Includes Breakout Boot)	
1/C Termination	**MOD-3-HVT Kit**
5-8 kV	**In/Outdoor Sealed**
HVT-Z-80-G/SG	MOD-3A-HVT*
HVT-Z-81-G/SG	MOD-3A-HVT
HVT-Z-82-G/SG	MOD-3A-HVT
HVT-Z-83-G/SG	MOD-3B-HVT
HVT-Z-84-G/SG	MOD-3B-HVT*
15 kV	
HVT-Z-151-SG	MOD-3A-HVT
HVT-Z-152-SG	MOD-3A-HVT
HVT-Z-153-SG	MOD-3B-HVT
HVT-Z-154-SG	MOD-3B-HVT*
25 kV and 35 kV	
HVT-Z-252/352-SG	MOD-3A-HVT
HVT-Z-253/353-SG	MOD-3B-HVT
HVT-Z-254/354-SG	MOD-3B-HVT*

Catalog Number	Insulation Diameter (min - max)	Jacket O.D. (min - max)
MOD-3X-HVT (unsealed)	0.50-1.35 (13-34)	
MOD-3Y-HVT (unsealed)	1.00-2.70 (25-69)	
MOD-3A-HVT (sealed)	0.50-1.25 (13-32)	1.25-3.85 (32-98)
MOD-3B-HVT (sealed)	1.00-2.10 (25-53)	2.65-5.30 (67-135)

ADDITIONAL PRODUCT INFORMATION

- To select the appropriate modification kit for the HVT terminations, use the MOD-3-HVT selection table above.
- Use the MOD-3-HVT dimensions table to confirm the insulation and jacket diameters. If the diameters of your cable fall outside the MOD-3-HVT kit's use range, you can purchase MOD-3-HVT components separately. To order separately, use the ordering information on the next page.

3/C CABLE TERMINATING

MOD-3X-HVT and MOD-3Y-HVT are for jacketing of phases and ground conductors. MOD-3A-HVT and MOD-3B-HVT provide jacketing, plus an environmental crotch sealing boot. Tubing provided does not have sealant coating on the inner wall. This makes it easy to remove, like any cable jacket. Each kit includes three 4-feet long sleeves for the phases and three 4-feet long smaller sleeves for any ground conductors. (Tubing can be field-cut to appropriate length.) A unique six-legged cable breakout boot, provided in -3A and -3B kits, has an internal coating of a special adhesive to provide total environmental sealing of the cable crotch (breakout) area. It has three large legs for the phases and three smaller legs for ground conductors. Plugs are included for insertion into any unused ground legs to maintain the environmental seal integrity.



MOD-3-HVT KIT COMPONENTS AND BULK ORDERING INFORMATION

Catalog Number	Kit Catalog	Component Catalog Number	Bulk Ordering Catalog Number
MOD-3X-HVT	Uncoated tubing to rejacket each phase Uncoated tubing to rejacket each ground Sealant strip	3 each MWTM-35/12-1200/U 3 each MWTM-16/5-1500/U 1 each S1085-3-380	MWTM-35/12-A/U MWTM-16/5-A/U S1085-3-380
MOD-3Y-HVT	Uncoated tubing to rejacket each phase Uncoated tubing to rejacket each ground Sealant strip	3 each MWTM-85/25-1500/U 3 each MWTM-16/5-1200/U 1 each S1085-3-380	MWTM-85/25-A/U MWTM-16/5-A/U S1085-3-380
MOD-3A-HVT	Uncoated tubing to rejacket each phase Uncoated tubing to rejacket each ground Sealant strip Cable breakout boot Cable breakout plugs Sealant-coated shim tubing	3 each MWTM-35/12-1200/U 3 each MWTM-16/5-1200/U 1 each S1085-3-380 1 each CBR-6-1-A 3 each CBR-PLUG 1 each WCSM-70/20-150-S	MWTM-35/12-A/U MWTM-16/5-A/U S1085-3-380 CBR-6-1-A CBR-PLUG WCSM-70/20-1200-S
MOD-3B-HVT	Uncoated tubing to rejacket each phase Uncoated tubing to rejacket each ground Sealant strip Cable breakout boot Cable breakout plugs Ground wire shim tubing	3 each MWTM-85/25-1500/U 3 each MWTM-16/5-1200/U 1 each S1085-3-380 1 each CBR-6-2-A 3 each CBR-PLUG 3 each WCSM-24/6-150-S	MWTM-85/25-A/U MWTM-16/5-A/U S1085-3-380 CBR-6-2-A CBR-PLUG WCSM-24/6-150-S (B50)

Note: MOD-3-HVT kits should be installed prior to installing TE Connectivity HVT kits.

ADDITIONAL PRODUCT INFORMATION

- Standard package: 1 kit/box.
- Kit contents: Unsealed (-3X and -3Y) kits contain rejacketing tubes for phase and ground conductors, and sealant for indoor terminations that don't require environmental sealing. Sealed (-3A and -3B) kits contain rejacketing tubes, sealant, a cable breakout, and plugs for both outdoor and indoor terminations.
- Kit components can be purchased in bulk quantities.

HVT-Z-LC/SLC 1/C LC Shield Cable (15kV)

FEATURES

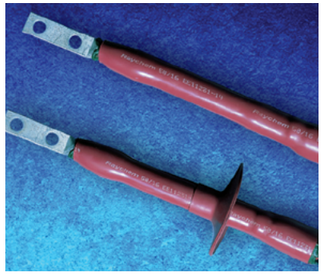
- Reliable, field proven performance
- Slim profile and lightweight, can be installed upright or inverted
- Non-tracking material is maintenance free even in highly polluted environments
- Meets IEEE-48 standard Class 1 termination requirement

APPLICATIONS

- For 1/C LC Shield Cables between 15 and 35 kV

BENEFITS

- TE Raychem HVT-Z-LC/SLC heat shinkable termination are designed using a stress grading material Zinc Oxide (ZnO)
- The use of ZnO as the stress control system has made it possible for us to offer a one piece termination and an overall shorter length than the HVT
- Unlimited shelf life when stored in normal conditions



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number		Conductor Size (AWG/kcmil)	Min - Max Insulation Diameter	Jacket O.D. (max)
HVT-Z-151-LC	**HVT-Z-151-SLC**	#4-1/0	0.65-0.95 (5-24)	1.20 (30)
HVT-Z-152-LC	**HVT-Z-152-SLC**	2/0-350	0.85-1.25 (22-32)	1.50 (38)
HVT-Z-153-LC	**HVT-Z-153-SLC**	400-1000	1.10-1.75 (28-44)	2.10 (53)
HVT-Z-154-LC	**HVT-Z-154-SLC**	1250-2500	1.60-2.45 (41-62)	2.75 (70)

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number. All selections are based on the typical dimensions of 100% insulated and 133% insulated cables manufactured in accordance with the data contained in AEIC CS5 and AEIC CS6 as well as the dimensions of commonly used connectors. Nominal insulation thickness: (100%) 15 kV: 175 mils, 25 kV: 260 mils, 35 kV: 345 mils. Nominal insulation thickness: (133%) 15 kV: 220 mils.
- For cables manufactured to other specifications, confirm selection with cable dimensions.
- HVT-LC/SLC kits are supplied with two pieces of #4 AWG braid to provide fault-current carrying capacity. Users should verify the compatibility of the braids with their LC shield cable.
- Kits do not contain connectors; order compression, shear bolt, or solder connectors separately.
- For skirt ordering information refer to the Accessory & Tool section.
- Cable Mounting brackets are available to accommodate cable diameters from 0.80-2.40 inches (20-46 mm). Refer to Acccessory & Tool section for ordering information.
- Standard package: 1 kit/box
- For testing information refer to the Application and Technical Specification Section.
- Related test reports: Indoor: 15 kV: EDR-5322, Outdoor: 15 kV: EDR-5323

HVT-ZL High Voltage Terminations (5 kV - 35 kV)

FEATURES

- Based on the co-extruded, one-piece HVT-Z termination
- When the tubing is shrunk down, the coating softens and sticks to irregular surfaces, providing moisture seals as well as electrical stress control
- Meet IEEE-48 standard Class 1 termination. High performance, trouble free service under harsh environments

APPLICATIONS

- TE Raychem HVT-ZL is intended for applications that require longer installation than HVT-Z kits provide. This may include coastal environments or legacy HVT Termination replacements

BENEFITS

- The main termination component consists of TE Raychem non-tracking tube together with a co-extruded stress control grading layer
- This stress control layer is based on ceramic semi-conductor technology (ZnO) and provides superior discharge and impulse performance
- Unlimited shelf life when stored in normal conditions

HVT-ZL



TEST REPORTS

Voltage Class	Indoor	Outdoor
5 | 8 | 15 kV	EDR-5322	EDR-5323
25 | 28 | 35 kV	EDR-5473	EDR-5481

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number		Min - Max Conductor Size		Min - Max Insulation Diameter	Jacket O.D. (max)
Indoor	**Outdoor Kit**				
5/8 kV		**5 kV 0.90**	**8 kV 0.115**		
HVT-ZL-80-G	**HVT-ZL-80-SG**	#4-#1 AWG	#6-#2 AWG	0.35-0.60 (9-15)	0.95 (24)
HVT-ZL-81-G	**HVT-ZL-81-SG**	1/0-250 kcmil	#1-4/0 AWG	0.60-0.95 (15-24)	1.20 (30)
HVT-ZL-82-G	**HVT-ZL-82-SG**	300-500 kcmil	250-500 kcmil	0.80-1.25 (20-32)	1.50 (38)
HVT-ZL-83-G	**HVT-ZL-83-SG**	600-1750 kcmil	600-1750 kcmil	1.10-1.75 (28-44)	2.10 (53)
HVT-ZL-84-G	**HVT-ZL-84-SG**	1500-2500 kcmil	2000-2500 kcmil	1.60-2.45 (41-62)	2.75 (70)
Installed Length 10.5" (267 mm)					
15 kV		**15 kV .175-.220**			
HVT-ZL-151-G	**HVT-ZL-151-SG**	#4-1/0 AWG		0.60-0.95 (15-24)	1.20 (30)
HVT-ZL-152-G	**HVT-ZL-152-SG**	2/0-350 kcmil		0.80-1.25 (20-32)	1.50 (38)
HVT-ZL-153-G	**HVT-ZL-153-SG**	400-1000 kcmil		1.10-1.65 (28-44)	2.10 (53)
HVT-ZL-154-G	**HVT-ZL-154-SG**	1250-2500 kcmil		1.60-2.45 (41-62)	2.75 (70)
Installed Length 15.0" (381 mm)					
25 kV		**25 kV 0.260**			
HVT-ZL-252-G	**HVT-ZL-252-SG**	#2-250 kcmil		0.80-1.25 (20-32)	1.50 (38)
HVT-ZL-253-G	**HVT-ZL-253-SG**	300-750 kcmil		1.10-1.70 (28-43)	2.10 (53)
HVT-ZL-254-G	**HVT-ZL-254-SG**	1000-2000 kcmil		1.60-2.45 (41-62)	2.75 (70)
Installed Length 28.0" (711 mm)					
35 kV		**35 kV 0.345**			
HVT-ZL-352-G	**HVT-ZL-352-SG**	#1-1/0 AWG		0.80-1.25 (20-32)	1.50 (38)
HVT-ZL-353-G	**HVT-ZL-353-SG**	2/0-500 kcmil		1.10-1.75 (28-44)	2.10 (53)
HVT-ZL-354-G	**HVT-ZL-354-SG**	750-1750 kcmil		1.60-2.45 (41-62)	2.75 (70)
Installed Length 33.0" (838 mm)					

TEST CHART

Product and Voltage Class Test Description	HVT-Z-80 Series (5-8 kV)	HVT-Z-150 Series (15 kV)	HVT-Z-250 | 350 Series (25-35 kV)
AC Withstand, 1 minute (kV)	35	60	90
DC Withstand, 15 minutes (kV)	65	75	140
Partial Discharge (min. kV) for 3 pc or less	9	15.6	36
Impulse withstand 1.2 X 50 us, crest kV	95	110	200
Continuous current rating	**Equal to cable ampacity**		
Wet withstand, 10 seconds, kV rms	30	45	80
Dry withstand, 6 hours, kV rms	25	35	75

HVT/HVT-3 15 kV Terminations

FEATURES

- Fully qualified to applicable sections of IEEE-48 to provide a long, trouble-free product life. In addition, these terminations have been pressure tested to perform at 110°C and 15 psi under load-cycling conditions

APPLICATIONS

- Accommodates belted or shielded paper-insulated, lead-covered (PILC) or varnished cambric-insulated (VCLC) cable

BENEFITS

- Proven oil-sealing capabilities with stress-control and non-tracking technologies
- Installs quickly and easily, with no need for special adapters, compound filling, leadwiping, or hot oils



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number		Conductor Size (AWG/kcmil)	Insulation Diameter (min)	Max Lead Sheath O.D.	Min Lug O.D.	Min Lug Barrel Length	Installed Length	
Indoor	Outdoor						Indoor	Outdoor
HVT-1590-G/SG 1/C PILC/VCLC Cable								
HVT-1591-G	HVT-1591-SG	#4-2/0	0.60 (15)	0.95 (24)	0.51 (13)	1.50 (38)	22.4 (570)	22.4 (570)
HVT-1592-G	HVT-1592-SG	3/0-400	0.85 (22)	1.25 (32)	0.65 (16)	1.50 (38)	22.4 (570)	22.4 (570)
HVT-1593-G	HVT-1593-SG	400-1000	1.00 (25)	1.65 (42)	0.95 (24)	1.50 (38)	23.6 (600)	23.6 (600)
HVT-1594-G	HVT-1594-SG	1250-2000	1.75 (44)	2.20 (56)	1.25 (32)	1.50 (38)	23.6 (600)	23.6 (600)

Catalog Number		Conductor Size (AWG/kcmil)	Insulation Diameter (min)	Installed Length Indoor		Outdoor	
Indoor	Outdoor			min	max	min	max
HVT-3-1590-G/SG 3/C PILC/VCLC Cable							
HVT-3-1591-G	HVT-3-1591-SG	#4-4/0	0.60 (15)	31.5 (800)	35 (888)	28 (711)	40 (1015)
HVT-3-1592-G	HVT-3-1592-SG	4/0-400	0.85 (22)	31.5 (800)	35 (888)	28 (711)	40 (1015)
HVT-3-1593-G	HVT-3-1593-SG	500-800	1.00 (25)	31.5 (800)	35 (888)	28 (711)	40 (1015)

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number. Selections are based on the typical dimensions of 100% insulated cables manufactured in accordance with AEIC standard. Nominal insulation thickness (100%): 165 mils
- Lugs are not supplied in the kits and should be ordered separately. Use oil block lugs only.
- Standard package quantity: 1 kit (Each 3/C kit contains all components required to terminate one 3/C PILC cable) per box.
- Related test report: EDR-5472
- Cable mounting brackets are available to accommodate cable diameters from 0.80-4.50 inches (20-115 mm).

HVT-M Flexible Cable Terminations (5-25 kV)

FEATURES

- The tubing and molded parts shrink quickly, providing a tight fit and minimizing downtime
- Meets IEEE-48, standard class 1 termination requirement for indoor or outdoor use: High-voltage, nontracking terminations for standard flexible and mining cables (MP-GC and SHD-GC)

APPLICATIONS

- TE Raychem HVT-M heat shrinkable terminations for mining cables provide for nontracking termination of 5-25 kV MP-GC and SHD-GC flexible cables

BENEFITS

- Proven, nontracking insulation surface can withstand the rigors of long-term electrical stress and surface pollution while maintaining its overall performance
- For outdoor applications in polluted and dusty environments, the creepage path is quickly extended by simply installing heat shrinkable skirts



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number		Power Conductor Size (AWG/kcmil)			
Indoor	Outdoor	5 kV		8 kV	
		3/C MP-GC	3/C SHD-GC	3/C MP-GC	3/C SHD-GC
5-8 kV					
HVT-M-581	HVT-M-581-S	#2-3/0	#6-2/0	#4-2/0	#4-#1
HVT-M-582	HVT-M-582-S	4/0-350	3/0-300	3/0-350	1/0-300
HVT-M-583	HVT-M-583-S	500-750	350-500	500-750	350-500
15 kV					
HVT-M-151	HVT-M-151-S	#2-4/0	#2-3/0		
HVT-M-152	HVT-M-152-S	250-500	4/0-500		
25 kV					
HVT-M-251	HVT-M-251-S	#1-250	#1-4/0		
HVT-M-252	HVT-M-252-S	350-500	250-500		

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number based on conductor size for your cable type. Confirm selection with cable diameter range.
- Kits do not contain connectors; please order separately.
- "S" (outdoor) kits include skirts (rain sheds).
- For longer tail lengths or for cable types not listed in this catalog, contact your local TE representative.
- Standard package: One 3/C kit/box.
- Related test reports: 5/8 kV: EDR-5217, 15 kV: EDR-5218, 25 kV: EDR-5219
- Cable mounting brackets are available to accommodate cable diameters from 0.80-4.50 inches (20-115 mm).

CST Cold Shrink Terminations

FEATURES

- Spiral holdout with pull direction toward the lug provides easy installation
- Extra-long, integrated geometric stress control and void-filling mastic to reduce termination positioning errors
- Outstanding weathering, UV and ozone resistance
- Chemical-resistant and fungus-resistant
- Hydrophobic silicone material to repel water
- Meet IEEE-48 standard class 1 requirements

APPLICATIONS

- TE's Raychem CST cold applied termination for polymeric shielded cables up to 35 kV with JCN, copper tape, wire, LC and Flat strap metallic shields. Indoor and outdoor applications included

BENEFITS

- Reliable, easy to install system to ensure trouble free service
- All components are pre-expanded on an easy-to-remove spiral holdout, allowing installation in compact environments on prepared cable
- Shear Bolt and compression style terminals and pin connectors are available to provide reliable connection to a variety of conductors

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number*	Cable Range (AWG/kcmil)	Min - Man Insulation Diameter	Number of Skirts	Std. Pack (Kits/Box)
Shielded, Indoor (5/8 kV)	**Range is for 5/8kV 100% insulation**			
CSTI-152	2/0-350 kcmil	0.65 - 1.06 in (16.5 - 27.0 mm)	3	1
CSTI-153	500-750 kcmil	0.97 - 1.35 in (24.5 - 34.5 mm)	3	1
CSTI-154	1000 kcmil	1.28 - 2.04 in (32.5 - 52.0 mm)	3	1
CSTIL-154	1000 kcmil	1.28 - 2.04 in (32.5 - 52.0 mm)	3	1
Shielded, Outdoor (5/8 kV)	**Range is for 5/8kV 100% insulation**			
CSTO-152	2/0-350 kcmil	0.65 - 1.06 in (16.5 - 27.0 mm)	4	1
CSTO-153	500-750 kcmil	0.97 - 1.35 in (24.5 - 34.5 mm)	4	1
CSTO-154	1000 kcmil	1.28 - 2.04 in (32.5 - 52.0 mm)	4	1
CSTOL-154	1000 kcmil	1.28 - 2.04 in (32.5 - 52.0 mm)	4	1
Shielded, Indoor (15kV)	**Range is for 15kV 100% insulation**			
CSTI-152	#2 - 250 kcmil	0.65 - 1.06 in (16.5 - 27.0 mm)	3	1
CSTI-153	350 - 500 kcmil	0.97 - 1.35 in (24.5 - 34.5 mm)	3	1
CSTI-154	600 - 1250 kcmil	1.28 - 2.04 in (32.5 - 52.0 mm)	3	1
CSTIL-154	600 - 1250 kcmil	1.28 - 2.04 in (32.5 - 52.0 mm)	3	1
Shielded, Outdoor (15kV)	**Range is for 15kV 100% insulation**			
CSTO-152	#2 - 250 kcmil	0.65 - 1.06 in (16.5 - 27.0 mm)	4	1
CSTO-153	350 - 500 kcmil	0.97 - 1.35 in (24.5 - 34.5 mm)	4	1
CSTO-154	600 - 1250 kcmil	1.28 - 2.04 in (32.5 - 52.0 mm)	4	1
CSTOL-154	600 - 1250 kcmil	1.28 - 2.04 in (32.5 - 52.0 mm)	4	1
Shielded, Indoor (25/28kV)	**Range is for 25kV 100% insulation**			
CSTI-282	#1 - 2/0	0.65 - 1.06 in (16.5 - 27.0 mm)	3	1
CSTI-283	2/0 - 350 kcmil	0.97 - 1.35 in (24.5 - 34.5 mm)	3	1
CSTI-284	500 - 1250 kcmil	1.28 - 2.04 in (32.5 - 52.0 mm)	3	1
CSTIL-284	500 - 1250 kcmil	1.28 - 2.04 in (32.5 - 52.0 mm)	3	1
Shielded, Outdoor (25/28kV)	**Range is for 25kV 100% insulation**			
CSTO-282	#1 - 2/0	0.65 - 1.06 in (16.5 - 27.0 mm)	4	1
CSTO-283	2/0 - 350 kcmil	0.97 - 1.35 in (24.5 - 34.5 mm)	4	1
CSTO-284	500 - 1250 kcmil	1.28 - 2.04 in (32.5 - 52.0 mm)	4	1
CSTOL-284	500 - 1250 kcmil	1.28 - 2.04 in (32.5 - 52.0 mm)	4	1
Shielded, Indoor (35kV)	**Range is for 35kV 100% Insulation**			
CSTI-352	1/0 - 350 kcmil	0.95 - 1.41 in (24.3 - 36.0 mm)	7	1
CSTI-353	250 - 750 kcmil	1.27 - 1.89 in (32.4 - 48.0 mm)	7	1
CSTI-354	750 - 2000 kcmil	1.70 - 2.52 in (43.2 - 64.0 mm)	7	1
Shielded, Outdoor (35kV)	**Range is for 35kV 100% Insulation**			
CSTO-352	1/0 - 350 kcmil	0.95 - 1.41 in (24.3 - 36.0 mm)	8	1
CSTO-353	250 - 750 kcmil	1.27 - 1.89 in (32.4 - 48.0 mm)	8	1
CSTO-354	750 - 2000 kcmil	1.70 - 2.52 in (43.2 - 64.0 mm)	8	1

* For JCN, add a J at the end of the part description. Example: CSTI-152 becomes CSTI-152J
For other shielded cables, add a G at the end of the part description. Example: CSTO-153 becomes CSTO-153G



CST - Outdoor



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

CSTO L** -153J -SL2 -B2

CST Accessory Options

Connector Type and Size

Code	Type	Use Range	Size
blank	no connector included		
-CP0	Compression pin (12 inches)		#2
-CP1	Compression pin (12 inches)		#1
-CP2	Compression pin (12 inches)		1/0
-CP3	Compression pin (12 inches)		2/0
-CP4	Compression pin (12 inches)		3/0
-CP5	Compression pin (12 inches)		4/0
-CL0	Copper Compression lug		#2
-CL1	Copper Compression lug		#1
-CL2	Copper Compression lug		1/0
-CL3	Copper Compression lug		2/0
-CL4	Copper Compression lug		3/0
-CL5	Copper Compression lug		4/0
-CL6	Copper Compression lug		350
-CL7	Copper Compression lug		500
-CL8	Copper Compression lug		750
-CL9	Copper Compression lug		1000
-SPO	Shear bolt pin	.268-.528	#2-4/0
-SLO	Shear bolt lug	.268-.528	#2-4/0
-SL1	Shear bolt lug	.268-.681	#2-350
-SL2	Shear bolt lug	.616-.998	350-750••
-SL3	Shear bolt lug	.813-1.152	600-1000••
-SL4	Shear bolt lug	1.19-1.25	2500•••

Bracket

Code T	Use Range (in)	Size
blank	not included	N/A
-B1	0.80-1.25	straight
-B2	1.10-1.50	straight
-B3	1.45-1.95	straight
-B4	1.80-2.40	straight
-B5	0.80-1.25	90 degree
-B6	1.10-1.50	90 degree
-B7	1.45-1.95	90 degree
-B8	1.80-2.40	90 degree

Contact TE customer support (or equilivent) for other connectors, as TE offers other sizes, lengths, and types.

***These size connectors must be used with long neck type CST except for 35 kV part numbers.*
Aluminum connectors are tin plated and can be used on copper or aluminum conductors.
Compression and shear bolt connectors are 2-hole NEMA type.

**** Contact TE Technical Support for long neck body requirements*
with this shear bolt. Aluminum connectors are tin plated and can be used on copper or aluminum conductors Compression and shear bolt lugs are 2-hole NEMA type. Other connectors such as 4-hole NEMA and other pin lengths are available.

ADDITIONAL PRODUCT INFORMATION

- Selections are based in the typical dimensions of Concentric-Stranded insulated cables and the dimensions of commonly used connectors manufactured in accordance with AEIC standard. Nominal insulation thicknesses: 15 kV 100% (175 mils), 15 kV 133% (220 mils), 25 kV 100% (260 mils), 35 kV (345 mils).
- For cables manufactured to other specifications, confirm selection with cable dimensions.
- Test Report available EDR-5591, EDR-5629.

MOD-3-CST Medium Voltage Cold Shrink Terminations (CST)

FEATURES

- Cold applied design
- High tracking, erosion, and UV resistant
- Retains performance over wide temperature range -45˚ to +150˚C
- 3/C modification kit

APPLICATIONS

- TE Raychem MOD-3-CST cold shrink termination converts a 3 conductor cable to 3 single conductor cables when terminating medium voltage power cable

BENEFITS

- Easy release spiral holdout for fast installation
- Superior moisture and environmental sealing



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	CST Kit Insulation Diameter Use Range	CST Application Diameter Use Range for MOD Kit	Description	Single Conductor Insulation Diameter Use Range	Overall Cable Jacket Diameter Use Range
Indoor CST Kit					
CST-152, CST-282	0.65 - 1.06(16.5-27.0)	0.65 - 0.90(16.5-22.9)	**MOD-3B-CSTI**	0.62 - .90 (15.7 - 22.9)	--
CST-152, CST-282	0.65 - 1.06(16.5-27.0)	0.91 - 1.06(23.1-27.0)	**MOD-3C-CSTI**	0.90 - 1.08 (22.9 - 27.4)	--
CST-153, CST-283	0.97 - 1.35(24.5-34.5)	0.97 - 1.08(24.4-34.5)	**MOD-3C-CSTI**	0.90 - 1.08 (22.9- 27.4)	--
CST-153, CST-283	0.97 - 1.35(24.5-34.5)	1.09 - 1.35(27.7-34.5)	**MOD-3D-CSTI**	1.08 - 1.36 (27.4 - 34.5)	--
CST-154, CST-284	1.28 -2.04(32.5-52.0)	1.37 - 2.04(34.8-52.0)	**MOD-3E-CSTI**	1.18 - 2.54 (30.0 - 64.5)	--
CST-352	0.95-1.41(24.3-36.0)	0.95-1.08(24.3-27.4)	**MOD-3C-CSTI**	0.90 - 1.08 (22.9 - 27.4)	--
CST-352	0.95-1.41(24.3-36.0)	1.09-1.36(27.7-34.5)	**MOD-3D-CSTI**	1.08 - 1.36 (27.4 - 34.5)	--
CST-352	0.95-1.41(24.3-36.0)	1.37-1.41(34.8-36-0)	**MOD-3E-CSTI**	1.18 - 2.54 (30.0 - 64.5)	--
CST-353	1.27-1.89(32.4-48.0)	1.27-1.89(32.4-48.0)	**MOD-3E-CSTI**	1.18 - 2.54 (30.0 - 64.5)	--
CST-354	1.70-2.52(43.2-64.0)	1.70-2.52(43.2-64.0)	**MOD-3E-CSTI**	1.18 - 2.54 (30.0 - 64.5)	--
Outdoor CST Kit					
CST-152, CST-282	0.65 - 1.06(16.5-27.0)	0.65 - 0.90(16.5-22.9)	**MOD-3B-CSTO**	0.62 - .90 (15.7 - 22.9)	2.21 - 3.23 (51.6 - 82)
CST-152, CST-282	0.65 - 1.06(16.5-27.0)	0.91 - 1.06(23.1-27.0)	**MOD-3C-CSTO**	0.90 - 1.08 (22.9 - 27.4)	2.50 - 3.74 (63.6 - 95)
CST-153, CST-283	0.97 - 1.35(24.5-34.5)	0.97 - 1.08(24.4-34.5)	**MOD-3C-CSTO**	0.90 - 1.08 (22.9- 27.4)	2.50 - 3.74 (63.6 - 95)
CST-153, CST-283	0.97 - 1.35(24.5-34.5)	1.09 - 1.35(27.7-34.5)	**MOD-3D-CSTO**	1.08 - 1.36 (27.4 - 34.5)	2.93 - 4.33 (74.4 - 110)
CST-154, CST-284	1.28 -2.04(32.5-52.0)	1.37 - 2.04(34.8-52.0)	**MOD-3E-CSTO**	1.18 - 2.54 (30.0 - 64.5)	3.21 - 5.90 (81.6 - 150)
CST-352	0.95-1.41(24.3-36.0)	0.95-1.08(24.3-27.4)	**MOD-3C-CSTO**	0.90 - 1.08 (22.9 - 27.4)	2.50 - 3.74 (63.6 - 95)
CST-352	0.95-1.41(24.3-36.0)	1.09-1.36(27.7-34.5)	**MOD-3D-CSTO**	1.08 - 1.36 (27.4 - 34.5)	2.93 - 4.33 (74.4 - 110)
CST-352	0.95-1.41(24.3-36.0)	1.37-1.41(34.8-36-0)	**MOD-3E-CSTO**	1.18 - 2.54 (30.0 - 64.5)	3.21 - 5.90 (81.6 - 150)
CST-353	1.27-1.89(32.4-48.0)	1.27-1.89(32.4-48.0)	**MOD-3E-CSTO**	1.18 - 2.54 (30.0 - 64.5)	3.21 - 5.90 (81.6 - 150)
CST-354	1.70-2.52(43.2-64.0)	1.70-2.52(43.2-64.0)	**MOD-3E-CSTO**	1.18 - 2.54 (30.0 - 64.5)	3.21 - 5.90 (81.6 - 150)

Indoor kits include 6 - 15 inch rejacketing sleeves, two per phase, sealing mastic
Outdoor kits include 6 - 15 inch long rejacketing sleeves, two per phase, crotch sealing boot, sealing mastic and solder blocked ground braid
Each kits contains easy to follow product installation instructions with visual displays of the installation steps. Installation is fast and simple.

ADDITIONAL PRODUCT INFORMATION

- To select the appropriate CST-MOD kit for the CST terminations, find the CST termination kit being used in the selection table above for indoor or outdoor application.
- Verify that the cable insulation diameter falls within the single conductor insulation diameter use range for the indoor MOD-CST kit. For outdor MOD-CST kits selection, also verify the 3/C cable overall diameter falls within the overall cable jacket diameter use range.

TFT-E 1/C Termination for Shielded Power Cable

FEATURES

- Holdout tube prevents collapsing due to rough handling
- Quick and easy installation in confined spaces
- Seals out moisture and contamination
- Aluminum shear bolts are available in 35 kV class terminations
- Fully qualified class 1 termination per IEEE-48 for a long, trouble free service lie

APPLICATIONS

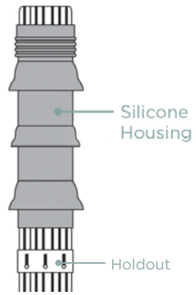
- This termination features an advanced stress control system using metal oxide matrix technology providing superior electrical performance
- Material does not degrade in outdoor applications

BENEFITS

- TE Raychem TFT-E system has an elastomeric housing with integral sheds that is formulated for long term performance in typical extreme termination environments. The housing comes on a pre-lubricated, crush resistant holdout for simple installation. The superior elastomeric housing, together with the positively positioned stress control system and moisture sealing mastic, provide reliable and consistent installations
- Provides excellent electrical performance and prevents misplacement of stress control system



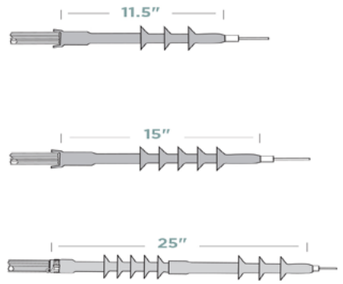
Insulation Class	6 h AC	DEV	BIL	DC
15 kV	35 kV	13 kV	110 kV	75 kV
25 kV	55 kV	21.5 kV	150 kV	105 kV
35 kV	75 kV	30 kV	200 kV	140 kV



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Nominal Conductor Size	Min/Max Insulation O.D.s*
TFT-151E-SG-SLC	#2-250 kcmil	0.64-1.09 (16-28)
TFT-152E-SG-SLC	4/0-500 kcmil	0.85-1.45 (22-37)
TFT-153E-SG-SLC	500-750 kcmil	1.06-1.70 (27-43)
TFT-154E-SG-SLC	1000-1250 kcmil	1.49-2.20 (38-56)
TFT-251E-SG-SLC	#1-2/0 AWG	0.64-1.09 (16-28)
TFT-252E-SG-SLC	#2-350 kcmil	0.85-1.45 (22-37)
TFT-253E-SG-SLC	250-750 kcmil	1.06-1.70 (27-46)
TFT-254E-SG-SLC	750-1250 kcmil	1.49-2.20 (38-63)
TFT-352E-SG-SLC	1/0-250 kcmil	0.85-1.45 (22-37)
TFT-353E-SG-SLC	4/0-350 kcmil	1.06-1.70 (27-43)
TFT-354E-SG-SLC	500-1250 kcmil	1.49-2.20 (38-56)

**Insulation ODs and nominal conductor sizes are based on 100 and 133% concentric stranded cable dimensions.*



Kit	Nominal Conductor Size	Min./Max. Insulation O.D.	Connector
TFT-353E-T5	1/0-350	1.05-1.48 (26-38)	ASBT-2-350
TFT-354E-T8	350-750	1.36-1.82 (35-46)	ASBT-350-750
TFT-354E-T9	600-1000	1.57-2.20 (40-56)	ASBT-600-1000

ADDITIONAL PRODUCT INFORMATION

- The -SG and -SLC kits contain a solder-blocked ground braid and a solderless ground clamp.
- Select the appropriate catalog number. Selections are based on the typical dimensions of 100% insulated cables and the dimensions of commonly used connectors manufactured in accordance with AEIC standard.Nominal insulation thickness (100%): 15 kV: 175 mils, 25 kV: 260 mils, 35 kV: 345 mils.
- For cables manufactured to other specifications, confirm selection with cable dimensions.
- Kits do not contain connectors; order compression or solder connectors separately.
- Cable mounting brackets are available to accommodate cable diameters from 0.80-2.40 inches (20-61 mm).

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Cable Range (AWG/kcmil)	Min - Max Insulation Diameter	Number of Skirts	Standard Pack (kits/box)	Hold Out ID
CN and JCN Cable - Indoor/Outdoor (15 kV)					
TFT-151E	#2-250	0.64-1.09 (16-28)	3	1 ea.	1.50 (38)
TFT-152E	4/0-500	0.85-1.45 (22-37)	3	1 ea.	1.77 (45)
TFT-153E	500-750	1.06-1.70 (27-43)	3	1 ea.	2.09 (53)
TFT-154E	1000-1250	1.49-2.20 (38-56)	3	1 ea.	2.56 (65)
CN and JCN Cable - Indoor/Outdoor (25 kV)					
TFT-251E	#1-3/0	0.64-1.09 (16-28)	5	1 ea.	1.50 (38)
TFT-252E	#1-500	0.85-1.45 (22-37)	5	1 ea.	1.77 (45)
TFT-253E	250-750	1.60-1.70 (27-43)	5	1 ea.	2.09 (53)
TFT-254E	750-1250	1.49-2.20 (38-56)	5	1 ea.	2.56 (65)
CN and JCN Cable - Indoor/Outdoor (35 kV)					
TFT-352E	1/0-40	.85-1.31 (22-33)	8	1 ea.	1.77 (45)
TFT-353E	4/0-500	1.06-1.70 (27-43)	8	1 ea.	2.09 (53)
TFT-354E	500-1250	1.49-2.20 (38-56)	8	1 ea.	2.56 (65)
Tape Shielded Cable - Indoor/Outdoor (5 kV No Sheds)					
TFT-151E-G	2/0-250	0.64-1.09 (16-28)	0	3 ea.	1.50 (38)
TFT-152E-G	350-500	0.85-1.45 (22-37)	0	3 ea.	1.77 (45)
TFT-153E-G	500-750	1.06-1.70 (27-43)	0	3 ea.	2.09 (53)
Tape Shielded Cable - Indoor/Outdoor (8 kV No Sheds)					
TFT-151E-G	1/0-250	0.64-1.09 (16-28)	0	3 ea.	1.50 (38)
TFT-152E-G	250-500	0.85-1.45 (22-37)	0	3 ea.	1.77 (45)
TFT-153E-G	500-750	1.06-1.70 (27-43)	0	3 ea.	2.09 (53)
Tape Shielded Cable - Indoor Only (15 kV No Sheds)					
TFT-151E-G	#2-250	0.64-1.09 (16-28)	0	3 ea.	1.50 (38)
TFT-152E-G	4/0-500	0.85-1.45 (22-37)	0	3 ea.	1.77 (45)
TFT-153E-G	500-750	1.06-1.70 (27-43)	0	3 ea.	2.09 (53)
Tape Shielded Cable - Indoor/Outdoor (15 kV)					
TFT-151E-SG	#2-250	0.64-1.09 (16-28)	3	3 ea.	1.50 (38)
TFT-152E-SG	4/0-500	0.85-1.45 (22-37)	3	3 ea.	1.77 (45)
TFT-153E-SG	500-750	1.06-1.70 (27-43)	3	3 ea.	2.09 (53)
TFT-154E-SG	1000-1250	1.49-2.20 (38-56)	3	3 ea.	2.56 (65)
Tape Shielded Cable - Indoor/Outdoor (25 kV)					
TFT-251E-SG	#1-3/0	0.64-1.09 (16-28)	5	3 ea.	1.50 (38)
TFT-252E-SG	#	0.85-1.45 (22-37)	5	3 ea.	1.77 (45)
TFT-253E-SG	250-750	1.06-1.70 (27-43)	5	3 ea.	2.09 (53)
TFT-254E-SG	750-1250	1.49-2.20 (38-56)	5	3 ea.	2.56 (65)
Tape Shielded Cable - Indoor/Outdoor (35 kV)					
TFT-352E-SG	1/0-250	0.85-1.45 (22-37)	8	3 ea.	1.77 (45)
TFT-353E-SG	4/0-500	1.06-1.70 (27-43)	8	3 ea.	2.09 (53)
TFT-354E-SG	500-1250	1.49-2.20 (38-56)	8	3 ea.	2.56 (65)
LC Shielded Cable - Indoor/Outdoor (15 kV)					
TFT-151E-SLC	#2-250	0.64-1.09 (16-28)	3	3 ea.	1.50 (38)
TFT-152E-SLC	4/0-500	0.85-1.45 (22-37)	3	3 ea.	1.77 (45)
TFT-153E-SLC	500-750	1.06-1.70 (27-43)	3	3 ea.	2.09 (53)
TFT-154E-SLC	1000-1250	1.49-2.20 (38-56)	3	3 ea.	2.56 (65)
LC Shielded Cable - Indoor/Outdoor (25 kV)					
TFT-251E-SLC	#1-3/0	0.64-1.09 (16-28)	5	3 ea.	1.50 (38)
TFT-252E-SLC	#	0.85-1.45 (22-37)	5	3 ea.	1.77 (45)
TFT-253E-SLC	250-750	1.06-1.70 (27-43)	5	3 ea.	2.09 (53)
TFT-254E-SLC	750-1250	1.49-2.20 (38-56)	5	3 ea.	2.56 (65)
LC Shielded Cable - Indoor/Outdoor (35 kV)					
TFT-352E-SLC	1/0-250	0.85-1.45 (22-37)	8	3 ea.	1.77 (45)
TFT-353E-SLC	4/0-500	1.06-1.70 (27-43)	8	3 ea.	2.09 (53)
TFT-354E-SLC	500-1250	1.49-2.20 (38-56)	8	3 ea.	2.56 (65)

RELATED INFORMATION

Test Report:
EDR-5302, 15 kV,
EDR-5303, 25 kV
EDR-5357, 35 kV
EDR-5299

1 Packaging: Standard packaging is three terminations per box
2 Available accessories: The BRKT series of stainless steel cable mounting brackets are available. Four sizes of brackets accommodate cable diameters from 0.80-2.40 inches (20-61 mm) 3 conductor modification kits.
3 Lugs and pin terminals also available.

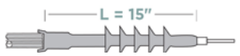
Installed Length
5/8/15 kV (without sheds)



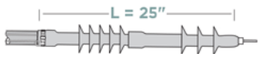
15 kV (with sheds)



25 kV (with sheds)



35 kV (with sheds)



TFT-R 1/C Terminations for Shielded / Non-Shielded Power Cable

FEATURES

- Advanced Metal Oxide Matrix stress control
- Provided on a crush-resistant core
- Fully qualified class 1 termination per IEEE-48 for a long, trouble free service life

APPLICATIONS

- Have been developed to provide a quick and easy, cold-applied method of terminating 5-35 kV, single conductor polymeric cables
- TE Raychem TFT-R and TFT-R-SG are designed for indoor and outdoor conditions
- TE Raychem TFT-R kits are for non-shielded cable applications. TFT-R-G kits do not have rain sheds and should be used for 5/8 kV indoor or outdoor applications and 15 kV indoor only applications

BENEFITS

- Easy installation — allows for repositioning
- Positive placement of stress control patch allowing inversion installs if necessary

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

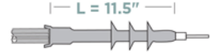
Catalog Number	Cable Range (AWG/kcmil)	Insulation Diameter (min - max)	Number of Skirts	Standard Pack (kits/box)
TFT-P-R Tape Shielded, Indoor - Push on Installation (5 kV/8 kV)				
TFT-P-80R	#6 - #2 AWG	0.39 - 0.61 (10-16)	0	3
TFT-R Non-Shielded, Indoor/Outdoor - Without Sheds (5 kV)				
TFT-50R	#2-3/0 AWG	0.53-0.80 (13-20)	0	3
TFT-51R	1/0-250 kcmil	0.64-1.09 (16-28)	0	3
TFT-52R	250-500 kcmil	0.85-1.45 (22-37)	0	3
TFT-53R	350-750 kcmil	1.06-1.70 (27-43)	0	3
TFT-R-G Tape Shielded, Indoor/Outdoor - Without Sheds (5 kV)				
TFT-150R-G	#2-3/0 AWG	0.53-0.80 (13-20)	0	3
TFT-151R-G	2/0-250 kcmil	0.64-1.09 (16-28)	0	3
TFT-152R-G	350-500 kcmil	0.85-1.45 (22-37)	0	3
TFT-153R-G	500-750 kcmil	1.06-1.70 (27-43)	0	3
TFT-R-G Tape Shielded, Indoor/Outdoor - Without Sheds (8 kV)				
TFT-150R-G	#2-3/0 AWG	0.53-0.80 (13-20)	0	3
TFT-151R-G	1/0-250 kcmil	0.64-1.09 (16-28)	0	3
TFT-152R-G	250-500 kcmil	0.85-1.45 (22-37)	0	3
TFT-153R-G	500-750 kcmil	1.06-1.70 (27-43)	0	3
TFT-R-G Tape Shielded, Indoor Only - Without Sheds (15 kV)				
TFT-150R-G	#2-3/0 AWG	0.53-0.80 (13-20)	0	3
TFT-151R-G	#2-250 kcmil	0.64-1.09 (16-28)	0	3
TFT-152R-G	4/0-500 kcmil	0.85-1.45 (22-37)	0	3
TFT-153R-G	500-750 kcmil	1.06-1.70 (27-43)	0	3
TFT-R-SG Tape Shielded, Indoor/Outdoor (15 kV)				
TFT-151R-SG	#2-250 kcmil	0.64-1.09 (16-28)	3	3
TFT-152R-SG	4/0-500 kcmil	0.85-1.45 (22-37)	3	3
TFT-153R-SG	500-750 kcmil	1.06-1.70 (27-43)	3	3
TFT-154R-SG	1000-1250 kcmil	1.49-2.20 (38-56)	3	3
TFT-R-SG Tape Shielded, Indoor/Outdoor (25 kV)				
TFT-251R-SG	#1-3/0 AWG	0.64-1.09 (16-28)	5	3
TFT-252R-SG	#2/0-500 kcmil	0.85-1.45 (22-37)	5	3
TFT-253R-SG	250-750 kcmil	1.06-1.70 (27-43)	5	3
TFT-254R-SG	750-1250 kcmil	1.49-2.20 (38-56)	5	3
TFT-R-SG Tape Shielded, Indoor/Outdoor (35 kV)				
TFT-352R-SG	1/0-250 kcmil	0.85-1.45 (22-37)	8	3
TFT-353R-SG	4/0-500 kcmil	1.06-1.70 (27-43)	8	3
TFT-354R-SG	500-1250 kcmil	1.49-2.20 (38-56)	8	3



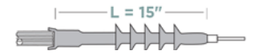
Installed Length
5/8/15 kV (without sheds)



15 kV (with sheds)



25 kV (with sheds)



35 kV (with sheds)



ADDITIONAL PRODUCT INFORMATION

- All shielded cable kits contain a solder-blocked ground braid and a solderless ground clamp.
- Selections are based on the typical dimensions of 100% insulated cables and the dimensions of commonly used connectors manufactured in accordance with AEIC standard. Nominal insulation thickness (100%): 15 kV: 175 mils, 25 kV: 260 mils, 35 kV: 345 mils
- For cables manufactured to other specifications, confirm cable dimensions.
- Kits do not contain connectors; order compression or solder connectors separately.
- Related test reports: 15 kV: EDR-5302 (outdoor), 15 kV: EDR-5306 (indoor), 25 kV: EDR-5303, EDR-5357, 35 kV: EDR-5299
- Cable mounting brackets are available to accommodate cable diameters from 0.80-2.40 inches (20-61 mm).
- For three conductor cables, order MOD-3-CST kits.

CSJD Cold Shrink Disconnectable Joint

FEATURES

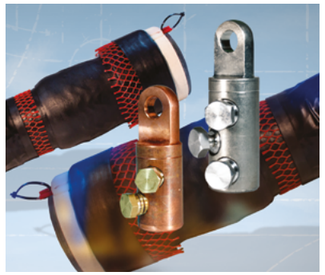
- Pre-expanded EPDM rejacketing sleeve and integrated neutral sock provide easy installation
- Joint body, jacket seal and copper neutral sock integrated into a single unit
- Ergonomically designed spiral holdout provides smooth installation with low release forces
- Meets IEEE 404 (2012) requirements for 15/28 kV
- CSJD kits include copper or aluminum shear bolt connectors and shear head bus bolts

APPLICATIONS

- TE Raychem CSJD, cold shrinkable disconnectable joint for 15 kV through 28 kV is designed to connect tape shield, LC shield, JCN and flat strap shielded cables to standard 'I', 'Y' and 'H' insulated cable buses

BENEFITS

- No cable adapter or retaining rings needed because of the cold shrinkable range-taking design
- The flexible silicone rubber joint body combined with an integrated EPDM jacket provides a tight moisture seal that remains secure, even when the joint is bent or moved
- Submersible secondary joint





Sleeve Restraint-D

TE's unique sleeve restraint secures a molded disconnectable joint to the bus when a CSJD is installed in an opposing position.



CSJD-Removal Tool

This tool makes removal of a CSJD disconnectable joint safe and easy, without risk of damaging the cable.

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Voltage Class	Catalog Number	Nominal Cable Range	Min/Max Insulation O.D.	Max Jacket O.D.	Neutral Sock (AWG)	Min/Max Diameter Over Cable Conductor*	Kit Installed Length	Required Installation Space
Disconnectable Joint with Aluminum Mechanical Shear Bolt Connector								
15 kV	**CSJD-1521-A1**	#2 - 350	0.69 -1.20 (17.5 - 30.5)	1.50 (38.1)	1/0	0.268 - 0.681 (6.8 - 17.3)	24 (610)	33 (838)
15 kV	**CSJD-1523-A2**	350 - 750	1.03 - 1.58 (26.2 - 40.0)	2.05 (52.1)	1/0	0.616 - 0.998 (15.7 - 25.4)	24 (610)	33 (838)
15 kV	**CSJD-1524-A3**	750 - 1000	1.28 - 2.05 (32.5 - 52.0)	2.60 (66.0)	2/0	0.813 - 1.252 (20.7 - 29.3)	24 (610)	33 (838)
28 kV	**CSJD-2821-A1**	#2 - 4/0	0.69 - 1.20 (17.5 - 30.5)	1.50 (38.1)	2/0	0.268 - 0.681 (6.8 - 17.3)	24 (610)	33 (838)
28 kV	**CSJD-2823-A1**	4/0 - 350	1.03 - 1.58 (26.2 - 40.0)	2.05 (52.1)	2/0	0.268 - 0.681 (6.8 - 17.3)	24 (610)	33 (838)
28 kV	**CSJD-2823-A2**	350 - 750	1.03 - 1.58 (26.2 - 40.0)	2.05 (52.1)	2/0	0.616 - 0.998 (15.7 - 25.4)	24 (610)	33 (838)
28 kV	**CSJD-2824-A2**	500 - 750	1.28 - 2.05 (32.5 - 52.0)	2.60 (66.0)	2/0	0.616 - 0.998 (15.7 - 25.4)	24 (610)	33 (838)
28 kV	**CSJD-2824-A3**	750 - 1000	1.28 - 2.05 (32.5 - 52.0)	2.60 (66.0)	2/0	0.813 - 1.252 (20.7 - 29.3)	24 (610)	33 (838)
** Min/max diameter over cable conductor accepted by the aluminum mechanical connector.*								
Disconnectable Joint with Copper Mechanical Shear Bolt Connector								
15 kV	**CSJD-1521-C1**	#2 - 4/0	0.69 - 1.20 (17.5 - 30.5)	1.50 (38.1)	2/0	0.268 - 0.528 (6.8 - 13.4)	24 (610)	33 (838)
15 kV	**CSJD-1521-C2**	4/0 - 350	0.69 - 1.20 (17.5 - 30.5)	1.50 (38.1)	2/0	0.376 - 0.813 (9.6 - 20.7)	24 (610)	33 (838)
15 kV	**CSJD-1523-C3**	300 - 750	1.03 - 1.58 (26.2 - 40.0)	2.05 (52.1)	2/0	0.570 - 0.998 (14.5 - 25.3)	24 (610)	33 (838)
15 kV	**CSJD-1524-C4**	500 - 1000	1.28 - 2.05 (32.5 - 52.0)	2.60 (66.0)	2/0	0.736 - 1.152 (18.7 - 29.30)	24 (610)	33 (838)
28 kV	**CSJD-2821-C1**	#2 - 4/0	0.69 - 1.20 (17.5 - 30.5)	1.50 (38.1)	2/0	0.268 - 0.528 (6.8 - 13.4)	24 (610)	33 (838)
28 kV	**CSJD-2823-C2**	4/0 - 500	1.03 - 1.58 (26.2 - 40.0)	2.05 (52.1)	2/0	0.376 - 0.813 (9.6 - 20.7)	24 (610)	33 (838)
28 kV	**CSJD-2823-C3**	300 - 750	1.03 - 1.58 (26.2 - 40.0)	2.05 (52.1)	2/0	0.570 - 0.998 (14.5 - 25.3)	24 (610)	33 (838)
28 kV	**CSJD-2824-C4**	500 - 1000	1.28 - 2.05 (32.5 - 52.0)	2.60 (66.0)	2/0	0.736 - 1.152 (18.7 - 29.30)	24 (610)	33 (838)
** Min/max diameter over cable conductor accepted by the copper mechanical connector.*								

ADDITIONAL PRODUCT INFORMATION

- Selections are based on the typical dimensions of 100% insulated cables, manufactured in accordance with AEIC standard.
- Nominal insulation thickness (100%): 15 kV: 175 mils, 25 kV: 260 mils.
- Select the appropriate catalog number. Use the insulation O.D., and jacket O.D. range as the final ordering criteria.
- For other applications or if you have any questions, contact your TE representative.
- Standard package: 1 kit per box.
- Related test reports: EDR-5582

CATJ Cold Applied Transition Joint

FEATURES

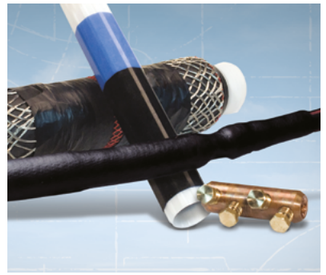
- Easy to install lead seal and connector seal
- All-in-One design pre-expanded silicone joint body with integrated neutral socket and rejacketing
- Cold applied oil barrier tube requires no special restricting tapes
- Range-taking oil stop shear bolt connectors supplied within the kit

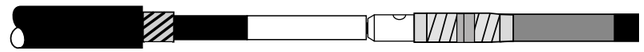
APPLICATIONS

- TE Raychem CATJ cold applied joint for 1/C PILC cables to 1/C solid dielectric cables

BENEFITS

- The CATJ joints offer a reliable, robust and easy-to-install cold applied transition jointing system
- CATJ cold applied transition joints are designed to cover a wide range of applications and to accommodate the variety of cable and conductor types





PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	PILC Insulation Range	Nominal PILC Size	Poly Insulation Range	Nominal Poly Size
15 kV				
CATJ-1581M0	0.69 - 1.06 (17.5 - 27.0)	#2 - 250 kcmil	0.69 - 1.20 (17.5 - 30.5)	#2 - 250 kcmil
CATJ-1582M1	0.84 - 1.30 (21.3 - 33.0)	4/0 - 350 kcmil	0.87 - 1.40(22.1 - 36.0)	4/0 - 500 kcmil
CATJ-1583M2	0.93 - 1.38 (23.6 - 35.0)	350 - 500 kcmil	1.03 - 1.58 (26.2 - 40.0)	350 - 750 kcmil
CATJ-1584M3	1.18 - 1.75 (30.0 - 44.4)	500 - 750/800 kcmil	1.28 - 2.05 (34.5 - 52.0)	750 - 1100 kcmil
28 kV				
CATJ-2881M0	0.69 - 1.06 (17.5 - 27.0)	#1 - 250 kcmil	0.69 - 1.20 (17.5 - 30.5)	#1 - 250 kcmil
CATJ-2882M1	0.84 - 1.30 (21.3 - 33.0)	4/0 - 550 kcmil	0.87 - 1.40 (22.1 - 36.0)	4/0 - 500 kcmil
CATJ-2883M2	1.07 - 1.48 (27.1 - 37.2)	350 - 500 kcmil	1.03 - 1.58 (26.2 - 40.0)	350 - 750 kcmil
CATJ-2884M3	1.18 - 1.75 (30.0 - 44.4)	500 - 750/800 kcmil	1.28 - 2.05 (34.5 - 52.0)	750 - 1000 kcmil

ADDITIONAL PRODUCT INFORMATION

- Selections are based on the typical dimensions of 100% insulated cables, manufactured in accordance with AEIC standard. Nominal insulation thickness (100%): 15 kV: 175 mils, 25 kV: 260 mils, 35 kV: 345 mils.
- Select the appropriate catalog number. Use the insulation O.D. and jacket O.D. range as the final ordering criteria.
- Standard package: 1 kit/box.
- Related test reports: EDR-5484.

Gelcap 8 Motor Connection Kits

FEATURES

- The specially formulated material provides excellent abrasion resistance, insulation value, and UV resistance. The cap is designed to fit 5-8 kV shielded and non-shielded cable

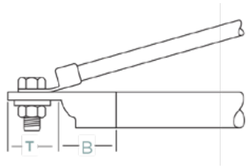
APPLICATIONS

- TE Raychem GelCap 8 stub connection kits insulate, seal, and protect stub splice connections up to 8 kV. The design was engineered to provide quick, secure installation and protection of the electrical connection from both physical and chemical attacks common in the harsh environment of motor connections
- Simply place the gel filled insert between the cables and push the cover down over the connection. Secure with cable tie. No extra materials or grease are required. No trimming

BENEFITS

- Provide quick installation, dependable performance, and easy reentry
- Kits feature revolutionary PowerGel sealing gel which provides an excellent moisture seal over a wide temperature range (-40°C to 105°C)
- PowerGel sealing gel has excellent insulating properties and the added benefit of acting as a vibration damper.
- GelCap 8 stub connection kits provide the fastest installation
- The PowerGel sealing gel is already in the cap





PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Cap Length	Feeder Cable O.D.	Nominal Size	Lead Cable O.D.	Max Length		
					Tang	Barrel	Bolt
GelCap-8-NS Non-Shielded Cable							
GELCAP-8-NS-1V	8.5 (216)	0.47-0.84 (12-21)	4-250 kcmil	0.43-0.67 (11-17)	1.33 (34)	1.00 (25)	0.75 (19)
GELCAP-8-NS-1VEX	11.5 (292)	0.47-0.84 (12-21)	4-250 kcmil	0.43-0.67 (11-17)	3.53 (90)	1.00 (25)	0.75 (19)
GELCAP-8-NS-2V	12.5 (318)	0.84-1.10 (21-28)	250-500 kcmil	0.67-0.84 (17-21)	3.92 (100)	2.25 (57)	1.0 (25)
GelCap-8-S Shielded Cable							
GELCAP-8-S-1V	8.5 (216)	0.67-1.00 (17-25)	4-2/0 AWG	0.40-0.62 (10-16)	1.33 (34)	1.00 (25)	0.75 (19)
GELCAP-8-S-1VEX	11.5 (292)	0.67-1.00 (17-25)	4-2/0 AWG	0.40-0.62 (10-16)	3.64 (92)	1.00 (25)	0.75 (19)
GELCAP-8-S-2V	12.5 (318)	1.00-1.35 (25-34)	4/0-500 kcmil	0.62-0.96 (16-24)	3.79 (96)	2.00 (51)	1.00 (25)
Ground Kit (Select Based on Shielded Cable Shield Diameter and Jacket Diameter Per Below)							
	Shield O.D. (min)	**Jacket O.D. (max)**					
GELCAP-8-GRD-1	.47 (12)	.70 (18)					
GELCAP-8-GRD-2	.67 (17)	1.35 (34)					

Kit contents - Each GELCAP-8-GRD kit contains the following: three each solder blocked ground braid, GelCap sealing cover, roll spring, gel sealant strip, and six each copper tape strips and one installation instruction. If grounding is required at the motor box for shielded cable, a separate grounding kit may be purchased.

PRODUCT PERFORMANCE

AC Voltage withstand: 18 kV, 1 minute

DC Voltage withstand: 35 kV, 15 minutes

Impulse Withstand (BIL): minimum performance 75 kV, 10+, 10-

ADDITIONAL PRODUCT INFORMATION

- Select appropriate catalog number based on the motor feeder cable and motor lead guidelines above. Selections are based on typical cable dimensions. Confirm selection with cable and connector dimensions.
- Packaging: Standard packaging is one kit per box. Each GelCap 8 kit contains components for a 3 phase motor connection which consists of three each of the following: elastomeric, gel filled cap; a gel filled cable insert; and cable tie. The type S kits for shielded cable also contain three each stress control pads.
- Kits do not contain connectors.
- Related tests reports: EDR-5408

MCK-5 Flame Retardant Splices (up to 8.7 kV)

FEATURES

- TE Raychem MCK-5 is rated to the general electrical requirements of the IEEE-48 withstand tests
- Motor connection kit provides excellent insulation sealing—and resistance to abrasion—in motor connections
- MCK is qualified to ANSI-C119.1 and rated to ICEA electrical withstand test for 1000 V

APPLICATIONS

- For use as an in-line or stub splice between 1/C poly feeder cable and motor leads

BENEFITS

- The Type V kit is designed to splice the stub or butt configuration that is commonly used where there is insufficient room to make in-line connections
- The Type L kit is used, where space permits, to splice in-line connections



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Motor Feeder Size AWG/kcmil	Bolt Length Max	Connector Length Max	Length Nominal
Type V (Stub)				**Cap**
MCK-5-1V	#8-#2	1.0	5.0 (127)	7.5 (191)
MCK-5-2V	#1-250	1.5	6.0 (152)	8.5 (216)
MCK-5-3V	300-750	1.5	7.0 (178)	9.5 (241)
Type L (In-Line)			**Sleeve**	
MCK-5-1L	#8-250	1.0	6.0 (152)	12.0 (305)
MCK-5-2L	300-1000	1.5	7.0 (178)	14.0 (356)
MCK (5/8.7 kV)				

ADDITIONAL PRODUCT INFORMATION

- Select appropriate catalog number based on the motor feeder cable. TE Raychem MCK-5 selections are based on the typical dimensions of 100% insulated cables and the dimensions of commonly used connectors manufactured in accordance AEIC standard. Nominal insulation thickness (100%): 90 mils. For cables manufactured to other specifications, confirm selection with cable and connector dimensions.
- Shielded cable must be terminated before installing MCK-5 (use TE Connectivity HVT-8x-G or HVT-Z-8x-G/SG. G only for HVT).
- TE Raychem MCK-5 kits are designed for single-hole connectors and include caps and sealant strips for three connections. Kits do not contain connectors.
- Standard package: MCK-5: 1 kit/box
- Related test reports: MCK-5: EDR-5010

Screened T-Connectors RSTI-58: for 800A (up to 24 kV)

FEATURES

- Screened connector does not need to be removed for over sheath testing
- Wide application range covers cable cross sections from 25 mm^2 to 300 mm^2
- Easy access rear plug with capacitive test point
- Insulation made of highly modified silicone rubber
- Compact design supports use of double “T” connections inside standard terminal boxes
- Unlimited shelf-life

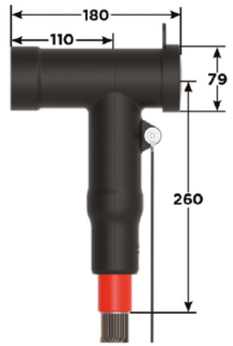
APPLICATIONS

- Connect single and three-core polymeric cables to medium voltage gas insulated switchgear and other equipment using bushings type “C” (EN50180/EN50181) specified for 630/1250A up to 24 kV
- RSTI coupling connectors (RSTI-CC) are also available with a molded nose cone for stacking applications

BENEFITS

- Made of a highly modified silicone rubber and protected by a thin-walled, grounded outer conductive screen, suited for indoor and outdoor installation
- The overall cut-back dimensions are designed to take up minimum space in the terminal box
- Equipped with a capacitive test point for determining whether the circuit is energized. This test point is protected by a conductive cap
- After cable preparation and lubrication, the stress control adapter is simply slid into place, followed by the screened connector body
- These two components can be installed under virtually any conditions.
- A separable mounting system ensures easy installation of the connector onto the bushing





PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

TECHNICAL DATA	
Cable insulation diameter range	12.7 mm - 34.6 mm
Connector cross section range	25 mm2 - 300 mm^2
Maximum system voltage	24 kV
Continuous current rating	800A
Basic impulse level	150 kV
Partial discharge at 2 U0	< 2 pC
AC voltage withstand. 1 min.	57 kV
DC voltage withstand, 15 min.	76 kV
Thermal short circuit, 1 s	54 kA
Dynamic short circuit	125 kA

Screened T-Connectors RSTI-58: for 800A (up to 24 kV)

Product Selection Information				
Catalog Number		Diameter Core Insulation (mm)		Cross Section (mm^2)
Aluminum	Copper	min	max	
with DIN compression lugs 12 kV				
RSTI-5810	RSTI-5830	12.7	23.4	25
RSTI-5811	RSTI-5831	12.7	23.4	35
RSTI-5812	RSTI-5832	12.7	23.4	50
RSTI-5813	RSTI-5833	12.7	23.4	70
RSTI-5814	RSTI-5834	12.7	23.4	95
RSTI-5815	RSTI-5835	12.7	23.4	120
RSTI-5826	RSTI-5846	21.2	34.6	150
RSTI-5827	RSTI-5847	21.2	34.6	185
RSTI-5828	RSTI-5848	21.2	34.6	240
RSTI-5829	RSTI-5849	21.2	34.6	300
with DIN compression lugs 24 kV				
RSTI-5810	RSTI-5830	12.7	23.4	25
RSTI-5811	RSTI-5831	12.7	23.4	35
RSTI-5812	RSTI-5832	12.7	23.4	50
RSTI-5813	RSTI-5833	12.7	23.4	70
RSTI-5824	RSTI-5844	21.2	34.6	95
RSTI-5825	RSTI-5845	21.2	34.6	120
RSTI-5826	RSTI-5846	21.2	34.6	150
RSTI-5827	RSTI-5847	21.2	34.6	185
RSTI-5828	RSTI-5848	21.2	34.6	240
RSTI-5829	RSTI-5849	21.2	34.6	300
with mechanical lugs and shear bolts 12 kV				
RSTI-5851 (Al or Cu)		12.7	23.4	35 - 95
RSTI-5852 (Al or Cu)		12.7	23.4	95 - 120
RSTI-5853 (Al or Cu)		17.0	30.1	95 - 240
RSTI-5854 (Al or Cu)		21.2	34.6	150 - 240
RSTI-5855 (Al or Cu)		21.2	34.6	185 - 300
RSTI-5856 (Al or Cu)		21.2	34.6	240 - 400
with mechanical lugs and shear bolts 24 kV				
RSTI-5851 (Al or Cu)		12.7	23.4	25 - 70
RSTI-5853 (Al or Cu)		17.0	30.1	95 - 185
RSTI-5854 (Al or Cu)		21.2	34.6	95 - 240
RSTI-5855 (Al or Cu)		21.2	34.6	185 - 300

Part numbers above are for jacketed concentric neutral cables. For cables with copper tape shield, add suffix -01

Screened T-Connectors RSTI-68 for 630/1250 A (up to 42 kV)

FEATURES

- The insulation made highly modified
- silicone rubber
- Thin-walled screen protects the connection system
- Easily accessible rear plug with capacitive test point
- Few accessories required for system test
- Complete kit including lugs facilitates installation and storage

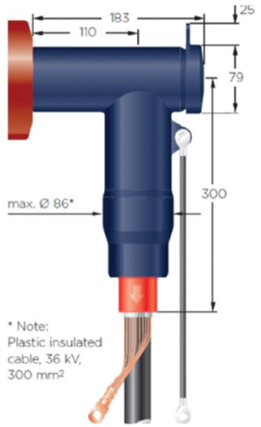
APPLICATIONS

- Connect single- and three-core polymeric cables to medium-voltage gas insulated switchgear and other equipment using bushings Type "C" (EN 50180/EN 50181), specified for 630/1250A up to 42 kV
- Suited for indoor and outdoor installation.
- The overall and cut-back dimensions are designed to take up minimum space in the terminal box
- RSTI coupling connectors (RSTI-CC) are also available with a molded nose cone for stacking applications

BENEFITS

- Equipped with a capacitive test point for determining whether the circuit is energized
- This test point is protected by a conductive cap
- After cable preparation and lubrication, the stress control adapter is simply slid into place, followed by the screened connector body
- These two components can be installed under virtually any conditions
- A separable mounting system ensures easy installation of the connector onto the bushing





PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

TECHNICAL DATA	
Cable insulation diameter range	21,0 - 42.0 mm
Connector cross section range	25 - 300 mm^2
Maximum system voltage	42 kV
Continuous current rating	800A
Basic impulse level	200 kV
Partial discharge at 2 U0	< 2 pC
AC voltage withstand. 5 min.	93.5 kV
DC voltage withstand, 15 min.	125 kV
Thermal short circuit, 1 s	55 kA
Thermal short circuit, 3 s	32 kA

Screened T-Connectors RSTI-68 for 630/1250 A (up to 42 kV)

Product Selection Information				
Catalog Number		**Diameter Core Insulation (mm)**		**Cross Section (mm^2)**
Aluminum	**Copper**	**min**	**max**	
with DIN compression lugs				
RSTI-6811	**RSTI-6821**	22,4	35,5	50
RSTI-6812	**RSTI-6822**	22,4	35,5	70
RSTI-6813	**RSTI-6823**	22,4	35,5	95
RSTI-6814	**RSTI-6824**	22,4	35,5	120
RSTI-6815	**RSTI-6825**	28,9	42,0	150
RSTI-6816	**RSTI-6826**	28,9	42,0	185
RSTI-6817	**RSTI-6827**	28,9	42,0	240
RSTI-6818	**RSTI-6828**	28,9	42,0	300
with mechanical lugs and shear bolts				
RSTI-6851 (Al or Cu)		22,4	35,5	25 - 95
RSTI-6852 (Al or Cu)		22,4	35,5	95 - 150
RSTI-6853 (Al or Cu)		28,9	42,0	120 - 240
RSTI-6855 (Al or Cu)		28,9	42,0	185 - 300

Part numbers above are for jacketed concentric neutral cables. For cables with copper tape shield, add suffix -01

Screened T-Connectors RSTI-X9 for 1250 A (up to 42 kV)

FEATURES

- Insulation made of highly modified silicone rubber
- Easily accessible rear plug with capacitive test point
- Compact design supports use of double “T” connections inside standard terminal boxes
- Wide application range covers cable cross sections from 400 to 800 mm^2
- Complete kit including lugs facilitates installation and storage

APPLICATIONS

- Designed to connect single- and three-core polymeric cables to medium-voltage gas insulated switchgear and other equipment using bushings Type “C” (EN 50180/EN 550181) specified for 630/1250A up to 42 kV
- Suited for indoor and outdoor application
- The overall and cut-back dimensions are designed to take up minimum space in the terminal box
- RSTI coupling connectors (RSTI-CC) are also available with a molded nose cone for stacking applications

BENEFITS

- Design incorporates one body and three stress cone adapters
- The overall - and cut back dimensions are designed to take up minimum space in the terminal box
- Equipped with a capacitive test point for determining whether the circuit is energized. A conductive cap protects this test point



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

TECHNICAL DATA	
Cable insulation diameter range	28.9 - 59.0 mm
Connector cross section range	400 - 800 mm^2
Maximum system voltage	42 kV
Continuous current rating	1250A*
Basic impulse level	200 kV
Partial discharge at 2 U0	< 2 pC
AC voltage withstand. 5 min.	93.5 kV
DC voltage withstand, 15 min.	125 kV
Thermal short circuit, 1 s	74.5 kA
Thermal short circuit, 3 s	43 kA
Dynamic short circuit	125 kA

Screened T-Connectors RSTI-X9 for 1250 A (up to 42 kV)

Product Selection Information			
Catalog Number	**Diameter Core Insulation (mm)**		**Cross Section (mm^2)**
	min	**max**	
24 kV with mechanical lugs			
RSTI-5951 (Al or Cu)	34,0	45,4	400
RSTI-5952 (Al or Cu)	34,0	45,4	500
RSTI-5953 (Al or Cu)	39,1	59,0	630
RSTI-5954 (Al or Cu)	39,1	59,0	800
36 and 42 kV with mechanical lugs			
RSTI-6951 (Al or Cu)	34,0	45,4	400
RSTI-6952 (Al or Cu)	39,1	59,0	500 - 630
RSTI-6953 (Al or Cu)	39,1	59,0	800

TEST REPORT
PPR-2704

Part numbers above are for jacketed concentric neutral cables. For cables with copper tape shield, add suffix -01

ELB-15/28-600 Series: 600/900A T-Body Connectors (15/28 kV)

FEATURES

- Peroxide cured EPDM rubber ensures low tension set and high dielectric strength
- 100% factory production tested for partial discharge and AC Hipot per IEEE 386
- 600/900 Amp 15/28 kV class
- Molded semiconducting shield provides ground shield continuity per the requirements of IEEE 592
- Meets IEEE 386-2006 specification requirements

APPLICATIONS

- TE Raychem ELB-15/28-600 series is designed to terminate underground cables to high-voltage apparatus such as transformers and switchgear
- Designed for use on extruded (XLPE or EPR) solid dielectric cable. The conductor range is from #1 AWG to 1250 kcmil for aluminum or copper conductors with insulation diameters from .640 to 1.965 inches

BENEFITS

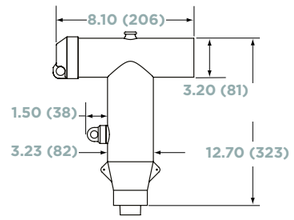
- Fully Shielded and fully submersible.
- Interchangeable with other manufacturers products that conform with this industry standard
- Optional capacitive test point provided on elbow
- Fits 15/28 kV cables up to 1250 kcmil



The ELB-15/28-610 elbow has a capacitive test point molded into the elbow body which provides a means of sensing voltage and provides an attachment point for test point fault indicators.
*900A ratings can be achieved by ordering the kit with a copper shear bolt terminal.

As an option, the elbow can also be ordered with TE's Aluminum or Copper Shear Bolt Terminals. These are range taking mechanical connectors that will accommodate a conductor range from #2 compact to 1250 kcmil stranded, Class B.

The shear bolt terminal design incorporates shear head bolts, which ensures that the correct torque is applied to each bolt and consequently the optimal contact force is generated to minimize connection resistance. Eliminating the need for crimp tooling and dies, they are therefore ideal when installation space is confined.



PRODUCT SELECTION INFORMATION

The part number for 15/28kV Elbow, 600 A with test point, an insulation OD of 1.755", and 750 kcmil stranded cable is ELB-15-610R750. (Or with AL Shear Bolt ELB-15/28-610K-A3) *When Copper shear bolt is specified, kit will automatically include copper insulating plug and stud, therefore offering 900A capability.

ELB-15/28- | 1 | 2 | 3

Current Rating/Test Point

- 600 = 600 AMP WITHOUT test point on T-Body
- 610 = 600 AMP WITH test point on T-Body
- 900 = 900 AMP WITHOUT test point on T-Body
- 910 = 910 AMP WITH test point on T-Body

Cable Adapter Section
Cable Insulation O.D. Range

Code	inches (mm)
A	.640-.760 (16.3-19.3)
B	.720-.845 (18.3-21.5)
C	.785-.970 (19.9-24.6)
D	.910-1.065 (23.1-27.1)
E	.980-1.140 (24.9-29.0)
F	1.080-1.280 (27.4-32.5)
G	1.220-1.420 (31.0-36.1)
H	1.360-1.560 (34.5-39.6)
J	1.480-1.700 (37.6-43.2)
K	1.640-1.840 (41.7-46.7)
L	1.780-1.965 (45.2-49.9)

Adapters also sold separately: ELB-15/28-600-CA-X (X = Code)

Compression Lug Section
Conductor Size (Aluminum or Copper)

Code	Str/Comp	Compact	Solid
1	1	1/0	1/0
2	2	2	2
10	1/0	2/0	2/0
20	2/0	3/0	3/0
30	3/0	4/0	4/0
40	4/0	250	—
250	250	300	—
300	300	350	—
350	350	400	—
400	400	450/500	—
450	450	500/550	—
500	500	600	—
550	550	650	—
600	600	700	—
650	650	750/800	—
750	700/750	900	—
800	800	900	—
900	900	1000	—
1000	1000	—	—
1100	1100	—	—
1250	1250	—	—

Aluminum Shear Bolt | Conductor Size

Code	Compression, Compact, Strand
-A1	2-350
-A2	350-750
-A3	600-1000
-A4	1000-1250
-A5	1500

Copper Shear Bolt | Conductor Size

Code	Compression, Compact, Strand
-C1	2-4/0
-C2	2/0-500
-C3	300-750
-C4	500-1000
-C5	1000-1250

Copper-Top Shear Bolt | Conductor Size

Code	Compression, Compact, Strand
-CT1	1/0 - 350
-CT2	500 - 1000
-CT3	1250 - 1500

ADDITIONAL PRODUCT INFORMATION

- To include a sealing kit, add "-ESA" suffix for heat-shrinkable and "-CES" suffix for cold applied GelWrap ES closure.
- If using copper tape cable, accessory ELB-35-600-GRDx (x = 1, 2, or 3) is required and ordered separately.
- Related test reports: EDR-5476, EDR-5482, EDR-5502, EDR-5503, EDR-5543

ELB-35-600 Series: 600/900 Amp T-Body Connectors (35 kV)

FEATURES

- Peroxide cured EPDM rubber ensures low tension set and high dielectric strength
- 100% factory production tested for partial discharge and AC Hipot per IEEE 386
- Molded semiconducting shield provides ground shield continuity per the requirements of IEEE 592
- Meets IEEE 386-2006 specification requirements

APPLICATIONS

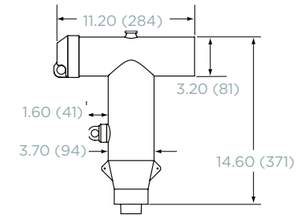
- Designed to terminate underground cables to high-voltage apparatus such as transformers and switchgear
- Designed for use on extruded (XLPE or EPR) solid dielectric cable. The conductor range is from #1 AWG to 1250 kcmil for aluminum or copper conductors with insulation diameters from .930" - 2.145"

BENEFITS

- Fully Shielded and fully submersible
- Interchangeable with other manufacturers products that conform with this industry standard
- Optional capacitive test point provided on elbow
- Fits 35 kV cables up to 1250 kcmil
- 200 kV BIL design available.
- Exceeds insulation level requirements in IEEE 386



ELB KIT CONTENTS
Elbow, Insulating Plug*, Cable Adapter, Stud*, Connector*, Silicone Lubricant, Installation Instruction, Jacket Seal (optional) *When Copper shear bolt is specified, kit will automatically include copper insulating plug and stud, therefore offering 900A capability.



The ELB-35-610 Elbow has a capacitive test point molded into the elbow body which provides a means of sensing voltage and provides an attachment point for test point fault indicators. 900A ratings can be achieved by ordering the kit with a copper shear bolt terminal.

As an option, the elbow can also be ordered with TE's Aluminum or Copper shear bolt Terminals. These are range taking mechanical connectors that will accommodate a conductor range from #2 compact to 1250 kcmil stranded, Class B.

The shear bolt terminal design incorporates shear head bolts, which ensures that the correct torque is applied to each bolt and consequently the optimal contact force is generated to minimize connection resistance. Eliminating the need for crimp tooling and dies, they are therefore ideal when installation space is confined.

Blank = 150 kV BIL
200 = 200 kV BIL

ELB-35- | 1 | 2 | 3 | 4

Current Rating/Test Point

- 600 = 600 AMP WITHOUT test point on T-Body
- 610 = 600 AMP WITH test point on T-Body
- 900 = 900 AMP WITHOUT test point on T-Body
- 910 = 900 AMP WITH test point on T-Body
- Note: 600 AMP kit is provided with aluminum components.

Cable Adapter Selection
Cable Insulation O.D. Range

Code	inches (mm)
E	.930-1.040 (23.6-26.4)
F	.980-1.115 (24.9-28.3)
G	1.040-1.175 (26.4-29.8)
H	1.095-1.240 (27.8-31.5)
J	1.160-1.305 (29.5-33.1)
K	1.220-1.375 (31.0-34.9)
L	1.285-1.395 (32.6-35.4)
M	1.355-1.520 (34.4-39.0)
N	1.485-1.595 (37.7-40.5)
P	1.530-1.640 (38.9-41.7)
Q	1.575-1.685 (40.0-42.8)
R	1.665-1.785 (42.3-45.3)
S	1.775-1.875 (45.1-47.6)
T	1.845-1.965 (46.9-50.0)
U	1.935-2.055 (49.1-52.2)
V	2.025-2.145 (51.4-54.5)

Adapters also sold separately: ELB-35-600-CA-X (X = Code)

Compression Lug Selection
Conductor Size (Aluminum or Copper)

Code	Str/Comp	Compact	Solid
1	—	1/0	1/0
10	1/0	2/0	2/0
20	2/0	3/0	3/0
30	3/0	4/0	4/0
40	4/0	250	—
250	250	300	—
300	300	350	—
350	350	400	—
400	400	450/500	—
450	450	500/550	—
500	500	600	—
550	550	650	—
600	600	700	—
650	650	750/800	—
750	700/750	900	—
800	800	900	—
900	900	1000	—
1000	1000	—	—
1100	1100	—	—
1250	1250	—	—

Compression lugs sold separately: ELB-600-CONN-AL-X (X=Code)

Aluminum Shear Bolt | Conductor Size

Code	Compression, Compact, Strand
-A1	2-350
-A2	350-750
-A3	600-1000
-A4	1000-1250
-A5	1500

Copper Shear Bolt | Conductor Size

Code	Compression, Compact, Strand
-C1	2-4/0
-C2	4/0-500
-C3	500-750
-C4	750-1000
-C5	1000-1250

Copper-Top Shear Bolt | Conductor Size

Code	Compression, Compact, Strand
-CT1	1/0-350
-CT2	500-1000
-CT3	1250-1500

Shear bolts also sold separately: ELB-600-CONN-X (X = Code)

ADDITIONAL PRODUCT INFORMATION

- To include a sealing kit, add "-ESA" suffix for heat-shrinkable or "-CES" suffix for cold applied sleeve.
- If using copper tape cable, accessory ELB-35-600-GRDx (x = 1, 2, or 3) is required and ordered separately.
- Related test reports: EDR-5476, EDR-5502, EDR-5503, EDR-5543, EDR-5477, EDR-5642
- For a 35 kV Elbow, 600 A with test point, an insulation O.D. of 1.755 inches, and 750 kcmil stranded cable is ELB-35-610R750.

Deadbreak Standoff Plugs

FEATURES

- 15/28 kV or 35 kV, 600A ratings
- Designed to be installed in the parking stand of apparatus
- Fully-shielded, fully submersible connection
- Stainless steel eyebolt with a stainless steel pressure foot
- Body bolted to stainless steel base bracket
- Compatible with 900A, all copper circuits
- Conforms to ANSI/IEEE standard 386

APPLICATIONS

- TE Raychem Deadbreak standoff plug is meant for use in a parking stand of an apparatus or junction, where it provides insulated protection for energized 15/28-35 kV deadbreak interfaces
- They are frequently used temporarily or permanently within padmount cabinets, underground vaults, switchgear, transformers, and a variety of other apparatus. Typical applications include isolating and sectionalizing energized cable, system maintenance, circuit reconfiguration, and future expansion

BENEFITS

- Interchangeable with other manufacturers' products that also comply with IEEE-386 standard



RATINGS

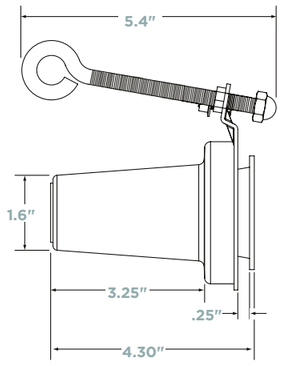
Voltage Class	15/28 kV	35 kV
Max. Rating Phase-to-Ground	16.2 kV	21.1 kV
Max. Rating Phase-to-Phase	28 kV	36.6 kV
AC 1 minute withstand	45 kV	50 kV
DC 15 minute withstand	88 kV	103 kV
BIL and full wave crest	140 kV	150 kV
Minimum Corona Level	21.5 kV (3pC)	26 kV (3pC)
Continuous	600A rms	600A rms
24 Hour Overload	1,000A rms	1,000A rms
Momentary: **25,000 A symmetrical 10 cycles** **10,000 A symmetrical 3.00 sec**		

PRODUCT SELECTION INFORMATION

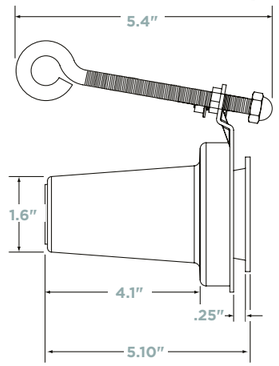
Catalog Number	Voltage Class	Current Rating	Description
ELB-15/28-600-SP	15/28 kV	600	Aluminum Deadbreak Standoff Plug
ELB-35-600-SP	35 kV	600	Aluminum Deadbreak Standoff Plug

Related test reports: EDR-5510

15/28 kV Deadbreak Standoff Plug



35 kV Deadbreak Standoff Plug



Deadbreak Insulating Caps

FEATURES

- 15/28 kV, 35 kV, 600A ratings available
- Includes a semiconducting EPDM insert for stress relief
- High quality peroxide cured EPDM insulation
- Provides insulated, fully shielded, submersible connection
- Maintains ground potential on the cap's surface when the drain wire is connected to a common ground
- Compatible with 900A, all-copper circuits
- Conforms to ANSI/IEEE Standard 386

APPLICATIONS

- TE Raychem 600A deadbreak insulating cap is available in 15/28kV and 35kV class. The insulating cap is meant to provide insulated protection for energized 15/28kV and 35kV deadbreak interfaces
- Typical applications include system maintenance, circuit reconfiguration, and future expansion

BENEFITS

- Interchangeable with other manufacturers' products that also comply with IEEE-386 standard

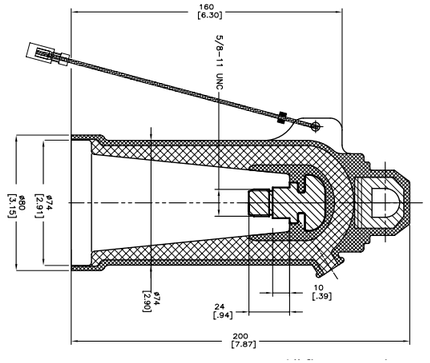


RATINGS

Voltage Class	15/28 kV	35 kV
Max. Rating Phase-to-Ground	16.2 kV	21.1 kV
Max. Rating Phase-to-Phase	28 kV	36.6 kV
AC 1 minute withstand	45 kV	70 kV
DC 15 minute withstand	88 kV	N/A
BIL and full wave crest	140 kV	200 kV
Minimum Corona Level	21.5 kV (3pC)	28.6 kV

PRODUCT SELECTION INFORMATION

Catalog Number	Voltage Class	Current Rating	Description
ELB-15/28-600-IC	15/28 kV	600	Aluminum Deadbreak Insulating Cap
ELB-35-600-IC	35 kV	600	Aluminum Deadbreak Insulation Cap



Deadbreak Connecting Plugs

FEATURES

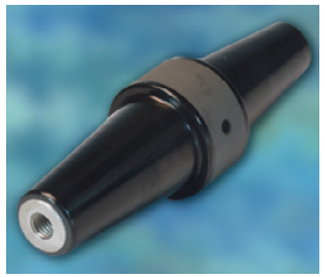
- 15/28 kV or 35 kV, 600 or 900A ratings available
- Fully submersible
- Industry standard 5/8 inch - 11 threaded stud used for electrical connection
- Available in either Aluminum or Copper
- Conforms to ANSI/IEEE Standard 386 E

APPLICATIONS

- TE Raychem Deadbreak Connecting Plug is available in both 15/28 kV and 35 kV class versions. The connecting plug is meant to connect two or more 600/900A deadbreak elbows
- Typical applications are as a separable cable splice, circuit reconfiguration, or as an expandable, submersible junction

BENEFITS

- 900A ratings are achieved by ordering the copper version, but require copper cable and other copper constructed components
- Interchangeable with other manufacturers' products that also comply with this standard



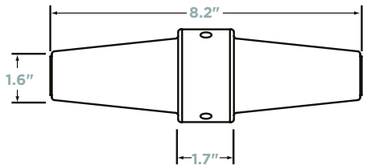
RATINGS

Voltage Class	15/28 kV	35 kV
Max. Rating Phase-to-Ground	16.2 kV	21.1 kV
Max. Rating Phase-to-Phase	28 kV	36.6 kV
AC 1 minute withstand	45 kV	50/70 kV
DC 15 minute withstand	88 kV	103 kV
BIL and full wave crest	140 kV	150/200 kV
Minimum Corona Level	21.5 kV (3pC)	26 kV (3pC)
Continuous	600/900A rms	600/900 A rms
24 Hour Overload	1,000A rms	1,000A rms
Momentary:		
600A	25,000 A symmetrical 10 cycles	
600A	10,000 A symmetrical 3.00 sec	
900A	40,000 A symmetrical 10 cycles	
900A	10,000 A symmetrical 3.00 sec	

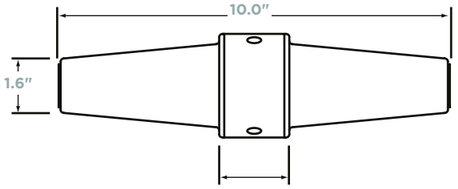
100% PRODUCTION TEST

Minimum Corona level	21.5 kV (3pC)	26 kV (3pC)
AC 1 minute withstand	45 kV	50/70 kV

15/28 kV Deadbreak Connecting Plug



35 kV Deadbreak Connecting Plug



PRODUCT SELECTION INFORMATION

Catalog Number	Voltage Class	Current Rating	Description
ELB-15/28-600-CP-AL	15/28 kV	600	Aluminum Deadbreak Connecting Plug
ELB-35-600-CP-AL	35 kV	600	Aluminum Deadbreak Connecting Plug
ELB-15/28-900-CP-CU	15/28 kV	600/900	Copper Deadbreak Connecting Plug
ELB-35-900-CP-CU	35 kV	600/900	Copper Deadbreak Connecting Plug
ELB-35-600-CP-AL-200	35 Kv	600	Aluminum Deadbreak connecting plug 200kV BIL
ELB-35-900-CP-CU-200	35 Kv	900	Copper Deadbreak Connecting plug 200kV BIL

Related test reports: EDR-5511

Deadbreak Junctions

FEATURES

- Available in 2, 3, 4 point configurations
- Deadfront, 15/28 kV or 35 kV, 600 or 900A Ratings
- EPDM molded rubber construction
- Optional corrosion resistant stainless steel (adjustable or stationary) mounting brackets for direct wall mounting
- Maintenance free, fully shielded, submersible
- Conforms to ANSI/IEEE Standard 386
- Heavy duty U-straps provide secure mounting for junctions

APPLICATIONS

- TE Raychem 600A/900A deadbreak junction is available in both 15/28 kV and 35 kV Class versions. Deadbreak junctions are used with 600/900A elbows and accessories for connecting, establishing loops, tapping, and facilitating apparatus change out
- They are commonly used in pad-mounted apparatus, sectionalizing cabinets, and underground vaults, where there is a critical use of space, flexibility, and operability
- Applications include padmount, indoor/outdoor vault, subsurface

BENEFITS

- The junction provides two, three, or four deadbreak interfaces bused together and encapsulated in a molded, peroxide-cured EPDM insulated rubber body, with an EPDM peroxide-cured semi-conductive outer shield
- Optional stationary or adjustable mounting brackets are available, assembled with the junctions themselves
- 900A ratings are achieved by ordering the copper version, but require copper cable and other copper constructed components
- Interchangeable with other manufacturers' products that also comply with this standard

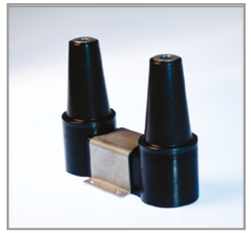


RATINGS

Voltage Class	15/28 kV	35 kV
Max. Rating Phase-to-Ground	16.2 kV	21.1 kV
Max. Rating Phase-to-Phase	28 kV	36.6 kV
AC 1 minute withstand	45 kV	50/70 kV
DC 15 minute withstand	88 kV	103 kV
BIL and full wave crest	140 kV	150/200 kV
Minimum Corona Level	21.5 kV (3pC)	26 kV (3pC)
Continuous	600/900A rms	600/900 A rms
24 Hour Overload	1,000A rms	1,000A rms
Momentary:		
600A	25,000 A symmetrical 10 cycles	
600A	10,000 A symmetrical 3.00 sec	
900A	40,000 A symmetrical 10 cycles	
900A	10,000 A symmetrical 3.00 sec	

PRODUCT SELECTION INFORMATION

Catalog Number	Current Rating	Size	Material
Junction with U-Strap 15/28 kV			
ELB-15/28-600-J2-AL	600A	J2	Aluminum
ELB-15/28-600-J3-AL	600A	J3	Aluminum
ELB-15/28-600-J4-AL	600A	J4	Aluminum
ELB-15/28-900-J2-CU	600/900A	J2	Copper
ELB-15/28-900-J3-CU	600/900A	J3	Copper
ELB-15/28-900-J4-CU	600/900A	J4	Copper
Junction with U-Strap 35 kV			
ELB-35-600-J2-AL	600A	J2	Aluminum
ELB-35-600-J3-AL	600A	J3	Aluminum
ELB-35-600-J4-AL	600A	J4	Aluminum
ELB-35-900-J2-CU	600/900A	J2	Copper
ELB-35-900-J3-CU	600/900A	J3	Copper
ELB-35-900-J4-CU	600/900A	J4	Copper
Junction with Stationary Bracket Included 15/28 kV			
ELB-15/28-600-J2-AL-STD	600A	J2	Aluminum
ELB-15/28-600-J3-AL-STD	600A	J3	Aluminum
ELB-15/28-600-J4-AL-STD	600A	J4	Aluminum
ELB-15/28-900-J2-CU-STD	600/900A	J2	Copper
ELB-15/28-900-J3-CU-STD	600/900A	J3	Copper
ELB-15/28-900-J4-CU-STD	600/900A	J4	Copper
Junction with Stationary Bracket Included 35 kV			
ELB-35-600-J2-AL-STD	600A	J2	Aluminum
ELB-35-600-J3-AL-STD	600A	J3	Aluminum
ELB-35-600-J4-AL-STD	600A	J4	Aluminum
ELB-35-900-J2-CU-STD	600/900A	J2	Copper
ELB-35-900-J3-CU-STD	600/900A	J3	Copper
ELB-35-900-J4-CU-STD	600/900A	J4	Copper
Junction with Adjustable Bracket Included 15/28 kV			
ELB-15/28-600-J2-AL-ADJ	600A	J2	Aluminum
ELB-15/28-600-J3-AL-ADJ	600A	J3	Aluminum
ELB-15/28-600-J4-AL-ADJ	600A	J4	Aluminum
ELB-15/28-900-J2-CU-ADJ	600/900A	J2	Copper
ELB-15/28-900-J3-CU-ADJ	600/900A	J3	Copper
ELB-15/28-900-J4-CU-ADJ	600/900A	J4	Copper
Junction with Adjustable Bracket Included 35 kV			
ELB-35-600-J2-AL-ADJ	600A	J2	Aluminum
ELB-35-600-J3-AL-ADJ	600A	J3	Aluminum
ELB-35-600-J4-AL-ADJ	600A	J4	Aluminum
ELB-35-900-J2-CU-ADJ	600/900A	J2	Copper
ELB-35-900-J3-CU-ADJ	600/900A	J3	Copper
ELB-35-900-J4-CU-ADJ	600/900A	J4	Copper







Related test reports: EDR-5508

ELB-15/28-600 Elbow Modular Splice Systems

FEATURES

- Peroxide cured EPDM rubber ensures low tension set and high dielectric strength
- 100% factory production tested for partial discharge and AC Hipot per IEEE 386
- Fits 15-35 kV cables up to 1250 kcmil
- Both compression lugs and range taking shear bolt connectors are available, along with the required cable adapter (sold separately)
- Designed for use on extruded (XLPE or EPR) solid dielectric cable

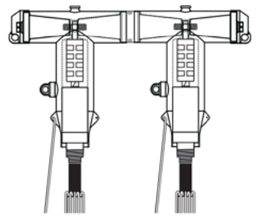
APPLICATIONS

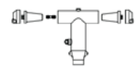
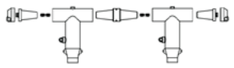
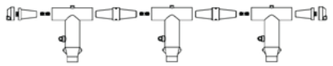
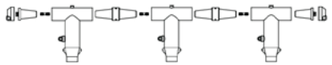
- TE Raychem ELB-15/28-600 offers separable solutions to fit a variety of needs which include: splicing, connecting to apparatus, dead-ending, and the ability to easily reconfigure circuits
- At 15-35 kV 600 Amp, the following options are available: 2-way, 3-way, 4-way, or dead-end connections

BENEFITS

- These kits use TE standard T-bodies, connecting plugs, insulating plugs, and conductive caps
- They are fully shielded and fully submersible and meet the requirements of IEEE Standard 386
- Interchangeable with other manufacturers' products that conform with this industry standard





Kit Catalog Number	Assembly
ELB-15/28-600-T1WAY	
ELB-15/28-610-T1WAY	
ELB-35-600-T1WAY	
ELB-35-610-T1WAY	
ELB-15/28-600-T2WAY	
ELB-15/28-610-T2WAY	
ELB-35-600-T2WAY	
ELB-35-610-T2WAY	
ELB-15/28-600-T3WAY	
ELB-15/28-610-T3WAY	
ELB-35-600-T3WAY	
ELB-35-610-T3WAY	
ELB-15/28-600-T4WAY	
ELB-15/28-610-T4WAY	
ELB-35-600-T4WAY	
ELB-35-610-T4WAY	

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Assembly	Approximate Width of Splicing System	
	15/28 kV	35 kV
Deadend (One Way)	10.1 (256)	12.1 (307)
Two Way	19.0 (483)	23.0 (584)
Three Way	27.9 (709)	33.9 (861)
Four Way	36.8 (935)	44.8 (1138)

ADDITIONAL PRODUCT INFORMATION

- Due to the variety of configurations possible, cable adapters and connectors are not included as part of this kit. Each one sold separately. Contact your local TE sales representative for assistance.
- A spanner wrench (ELB-600-SPANNER, sold separately) may be required for proper installation.
- If using copper tape cable, accessory ELB-35-600-GRDx (x = 1, 2 or 3) is required and ordered separately.
- Sealing kits are available separately: the ESA for heatshrink, GES for cold-applied Gelwrap ES closure, and CES for cold-applied rip-cord style.
- Related test reports: EDR-5482, EDR-5476, EDR-5502, EDR-5503, EDR-5511, EDR-5477, EDR-5543.

ELB-35-600 Arrester

FEATURES

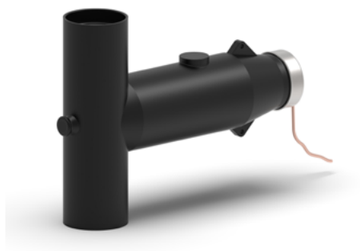
- The 600A interface bolts directly to a bushing, saving space and eliminating the need for adaptors
- Tested in accordance with the dead front arrester failure mode test, which has proven TE Raychem elbow arrester to have safe and predictable failure characteristics
- Large diameter MOV elements provide high energy handling capability
- Fully submersible and meet the performance requirements of IEEE C62.11 and IEEE standard 386

APPLICATIONS

- TE Raychem ELB-35-600 Arrester is designed to protect underground cables and high-voltage apparatus from voltage surges due to lightning and switching transients

BENEFITS

- Eliminates the need for bushing extenders, reducing tap plugs, and 200A load break interface arresters and installs in the same manner as a standard 35 kV 600 A elbow
- All MOV elements and end fittings are in a single epoxy fiber module. There are. There are no glued interfaces. The design is void and gap free ensuring peak performance under the harshest conditions



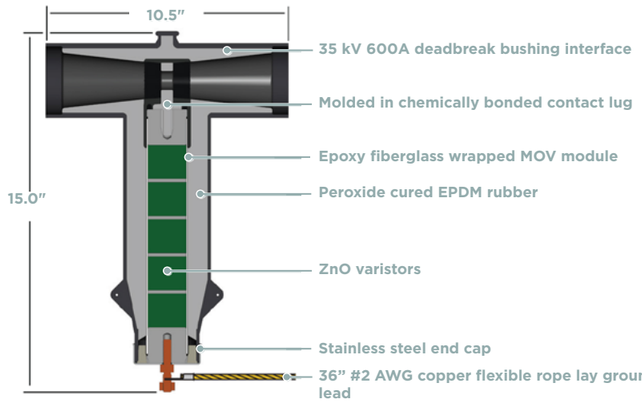
PERFORMANCE CHARACTERISTICS

High Current Short Duration	65kA, 4 x 10μsec
Low Current Long Duration	75A, 2000μsec
Duty Cycle	5kA, 8 x 20μsec

Following each of the preceding tests the arrester demonstrates thermal recovery at MCOV.

100% Production Test
Partial Discharge 26 kV (10pc)
AC 1 minute withstand 50 kV (housing only)
Reference Voltage Test

ELB-35-600-ARSTR Kit Contents:
- Elbow Arrester
- Insulating Plug (Al)
- Stud (Al)
- 36" tinned Cu Ground Lead
- Silicone Lubricant
- Installation Instructions



PRODUCT SELECTION INFORMATION

Catalog Number	Duty Cycle Rating (kV/rms)	MCOV (kV/rms)	Max Discharge Voltage (kV crest) 8 x 20 microsecond current wave			
			1.5 kA	5 kA	10 kA	20 kA
ELB-35-600-ARSTR27-W	27	22.0	72.6	79.9	86.5	94.8
ELB-35-600-ARSTR30-W	30	24.4	80.1	88.2	95.4	104.5
ELB-35-600-ARSTR33-W	33	26.8	87.1	95.9	103.8	113.8
ELB-35-600-ARSTR36-W	36	29.0	87.1	95.9	103.8	113.8

Related Test Report: EDR-5506

CES Cold Applied Elbow Seal

FEATURES

- Highly elastic EPDM formulation enables wide cable application ranges. Just three products are able to cover the most common range of cable, 15 kV #2-35 kV 1250 kcmil
- An ergonomically designed spiral holdout provides a smooth installation with low release forces
- No open flame or heat source is required for installation
- Meets IEEE 404 jacket sealing requirements
- Thick walled tube resists puncture and damage
- Resistant to fungus, acids, and alkalies

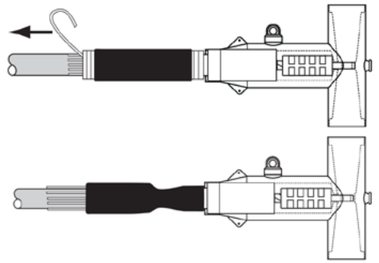
APPLICATIONS

- TE Raychem CES is used for sealing power cables where elbows or other cable accessories are installed
- The CES is applied in 15-35 kV, 600A applications. It protects underground cable from moisture and airborne contaminants, and is suitable for both direct burial and submersible applications

BENEFITS

- The kit consists of a factory-expanded tubular EPDM rubber sleeve on a spiral holdout, along with strips of mastic which are used to help create the seal
- Designed for easy field installation. After applying the mastic and cable accessory, the spiral holdout is simply pulled clear
- The jacket will compress and form an environmental seal in combination with the mastic





PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Typical Tube Length		Expanded Tube Diameter	Inner Diameter of Holdout
	Expanded	Relaxed		
ELB-600-CES-1	5.00 (127)	6.00 (150)	2.24 (57)	1.97 (50)
ELB-600-CES-2	6.75 (171)	8.00 (200)	2.95 (75)	2.68 (68)
ELB-600-CES-3	7.50 (190)	9.00 (225)	4.13 (105)	3.85 (98)

Catalog Number	Cable Size			Min Seal Diameter	Max Installed Diameter
	15 kV Class	25 kV Class	35 kV Class		
ELB-600-CES-1	2-4/0 AWG (35-100 mm²)	2-2/0 AWG (35-50 mm²)	1/0 AWG (60 mm²)	0.95 (24)	1.50 (38)
ELB-600-CES-2	2/0-1000 kcmil (70-500 mm²)	1/0 AWG-750 kcmil (60-380 mm²)	1/0 AWG-500 kcmil (60-250 mm²)	1.28 (33)	2.67 (68)
ELB-600-CES-3	750-1500 kcmil (380-725 mm²)	600-1250 kcmil (325-625 mm²)	350-1250 kcmil (180-625 mm²)	1.60 (41)	3.50 (89)

ADDITIONAL PRODUCT INFORMATION

- Selections are based on the typical dimensions of 100% insulated cables, manufactured in accordance with AEIC standard. Nominal insulation thickness (100%): 15 kV: 175 mils, 25 kV: 260 mils, 35 kV: 345 mils.
- Select the appropriate catalog number. Use the actual insulation OD, and jacket OD range as the final ordering criteria.
- Kits used on metallic tape-shielded cables may require external grounding component. HVS-GC + HV-Braid.
- For other applications or if you have any questions, contact your TE representative.
- If ordered separate from Elbow kits, standard package: 3 kits per box.
- Related test reports: EDR-5528

ESA Heat Shrinkable Elbow Sealing Adapters

FEATURES

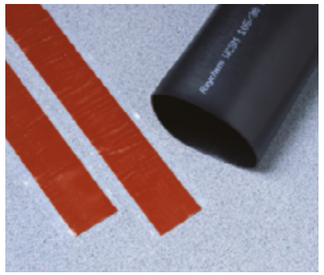
- 1/C jacketed URD and shielded power cable
- Qualified to ANSI C119.1
- RUS accepted for termination/elbow sealing

APPLICATIONS

- TE Raychem ESA adapters are for use on jacketed concentric neutral, drain-wire-shielded, or copper-tape-shielded power cable

BENEFITS

- ESA elbow sealing adapters shrink down tightly to form an environmental rejacketing seal
- Use this heat shrinkable kit to seal the jacket of a power cable used with a premolded elbow



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Conductor Size (AWG/kcmil)				
	5 kV	15 kV	25 kV	35 kV	Diameter (min-max)
ESA-1	#2-500	#2-250	#1-3/0		.65-1.50 (17-38)
ESA-2	600-1000	350-1000	4/0-1000	1/0-1000	.30-2.50 (33-63)

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number based on the cable conductor size and voltage class. Selections are based on the typical dimensions of 100% or 133% insulated cables manufactured in accordance with AEIC standard. For cables manufactured to other specifications, selection should be confirmed with cable dimensions.
- Kits used on metallic-tape-shielded cables may require an external grounding kit.
- Standard package: 3 kits/box.
- Related test report: EDR-5145.

Gelwrap ES Wrap-Around Cold-Applied Elbow Sealing Adapters

FEATURES

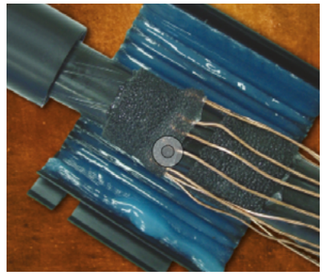
- The sleeve is factory coated with PowerGel sealant to provide a positive moisture seal. PowerGel sealant strips are included in the kit to ensure proper sealing of any neutrals or grounds exiting the sleeve
- For 1/C jacketed cables

APPLICATIONS

- This kit is used to seal the jacket of a power cable used with a premolded elbow

BENEFITS

- Easily installed due to the wrap-around design. Simply install the elbow as you normally would then use the components of TE Raychem GelWrap ES elbow sealing closure kit to provide an environmental seal
- Pre-positioning of the sleeve is not required so retrofit installations are easily accomplished
- One kit provides a very wide use range to minimize inventory requirements



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Outside Diameter		Voltage Class	Insulated Conductor Size	
	Insulation Shield (min)	Cable Jacket or Covered Arm of Elbow (max)		100%	133%
GelWrap-ES-65/25-150(B6)	1.00 (25)	2.40 (61)	5	500-1000	500-1000

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number based on the cable conductor size and voltage class. Selections are based on the typical dimensions of 100% or 133% insulated cables manufactured in accordance with AEIC standard. For cables manufactured to other specifications, selection should be confirmed with cable dimensions.
- Kits used on metallic-tape-shielded cables may require an external grounding kit.
- Standard package: 3 kits/box.
- Related test report: EDR-5145.

RVS-SK Rayvolve "Roll-On" Elbow Sealing Adapters

FEATURES

- The easy, "roll-on" way to seal JCN cable jackets when they are terminated to premolded elbows
- Qualified to ANSI C119.1
- For concentric Neutral jackets for 1/C jacketed URD cables

APPLICATIONS

- TE Raychem RVS-SK are used on standard poly- or elastomeric-insulated cables
- Use to seal JCN cable jackets when terminated to pre-molded elbows

BENEFITS

- Provide an environmental seal that is maintained throughout exposure to conditions typical of elbow installations: temperature extremes (–36°F to 162°F/–20°C to 90°C), temperature cycling (41°F to 162°F/23°C to 90°C), and twisting and flexing motions as seen during switching



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Outside Diameter		Voltage Class (kV)	Insulated Conductor Size (AWG/kcmil)	
	Insulation Shield (min)	Jacket O.D. (max)		100%	133%
RVS-13-SK	0.55 (14)	1.25 (32)	5 15 25	#2-250 #2-3/0 #1	#2-250 #2-1/0
RVS-14-SK	0.70 (18)	1.60 (41)	5 15 25 35	3/0-600 #2-400 #1-250 1/0-2/0	3/0-600 #2-350 #1-3/0
RVS-15-SK*	1.15 (29)	2.00 (51)	5 15 25 35	600-1000 350-750 4/0-600 1/0-400	600-1000 250-750 1/0-500 1/0-250

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number. Selections are based on typical dimensions of low voltage insulated cable. Confirm selection with dimensions to assure proper sizing.
- Kits do not contain connectors. The RVS-SK selection information covers all conductor types from solid to stranded.
- Kits contain all materials necessary to seal from the cable jacket to either the cable semi-con or 200-A elbow.
- * For warm weather installations (above 32°F), use range may be extended to a 2.25-inch-maximum jacket diameter. This covers 133%-insulated 1000-kcmil 15 kV and 25 kV cable, and 133%-insulated 750-kcmil 35 kV cable.
- Kits used on metallic-tape-shielded cables may require an external grounding kits.
- Each kit contains one Rayvolve RVS-SK sleeve and sealant strips.
- Standard package: 6 kits/box
- Related test report: EDR-5196

JGK-MS Jacketed Cable Grounding Kits

FEATURES

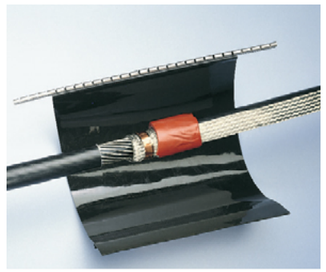
- Heat shrinkable JGK-MS kits provide complete environmental sealing with a wraparound, adhesive-lined rejacketing sleeve
- Each kit contains a constant-force ground clamp, a solder-blocked ground braid for external grounding, and a sealant to encapsulate and seal the ground connector
- Wraparound rejacketing sleeve has been water-seal tested to the applicable sections of ANSI C 119.1
- TE Raychem JGK-MS-HC kits have high fault current capability

APPLICATIONS

- Addresses the RUS recommendation to externally ground the jacketed cable neutrals at least four times per mile to limit shield standing voltage, to avoid accidental shock, and to provide multiple parallel return paths for line-to-ground faults

BENEFITS

- Kits are RUS accepted and have been tested to meet the 10 kA/10 cycles or 15 kA/15 cycle fault current test requirements



PRODUCT SELECTION INFORMATION

Catalog Number	Nominal Use Range (AWG/kcmil)			Rated Fault Current
	15 kV	25 kV	35 kV	
JGK-MS-1	#4-4/0	#1-1/0		10 kA, 10 cycles
JGK-MS-2	250-1000	1/0-750	1/0-500	15 kA, 15 cycles
JGK-MS-3	1000-2000	750-1750	500-1500	15 kA, 15 cycles
JGK-MS-HC-2	250-1000	1/0-750	1/0-500	30 kA, 10 cycles
JGK-MS-HC-3	1000-2000	750-1750	500-1500	30 kA, 10 cycles

ADDITIONAL PRODUCT INFORMATION

- Standard package: 3 kits/box
- Related test report: EDR-5242

GelWrap MS-GRD

FEATURES

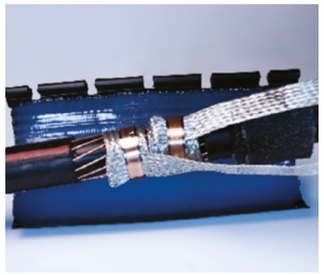
- Cold Applied GelWrap MS-GRD kits provide complete environmental sealing with a Gel-Filled, wraparound rejacketing sleeve
- Each kit contains a constant-force ground clamp, a solder-blocked ground braid for external grounding, a gel sealant strip and tie wraps

APPLICATIONS

- TE Raychem Gelwrap MS-GRD kit addresses the WindFarm construction recommendation to externally ground jacketed concentric neutral power cable at least four times per mile to limit/minimize shield standing voltage, to avoid accidental shock, and to provide a return path for line-to-ground faults

BENEFITS

- Kits are tested to meet the 10 kA/10 cycles or 15 kA/15 cycle fault current test requirements
- Wraparound rejacketing sleeve has been water-seal tested to the applicable sections of ANSI C 119.1



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Outside Diameter		Voltage Class	Insulated Conductor Size	
	Insulation Shield (min)	Jacket O.D. (max)		100%	133%
GelWrap-MS-GRD-1	1.00 (25)	2.60 (61)	5	500-1000	500-1000
GelWrap-MS-GRD-2	1.00 (25)	2.60 (61)	5	500-1000	500-1000
GelWrap-MS-GRD-3	1.00 (25)	2.60 (61)	5	500-1000	500-1000

Catalog Number	Shield O.D. (min)	Jacket O.D. (max)	Nominal Use Range (AWG/kcmil)		
			15 kV	25 kV	35 kV
GelWrap-MS-GRD-CT-2	1.00 (25)	1.80 (46)	250-750	2/0-500	1/0-250

Catalog Number	Nominal Use Range (AWG/kcmil)			Rated Fault Current
	15 kV	25 kV	35 kV	
GelWrap-MS-GRD-1	#4-2/0	#1	n/a	10 kA, 10 cycles
GelWrap-MS-GRD-2	2/0-750	#1-500	1/0-350	15 kA, 15 cycles
GelWrap-MS-GRD-3	1000-2000	750-1750	300-1500	15 kA, 15 cycles

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number based on the cable conductor size and voltage class. Selections are based on the typical dimensions of 100%- or 133%-insulated cables manufactured in accordance with the data contained in AEIC CS5. For cables manufactured to other specifications, selection should be confirmed with cable dimensions.
- Kits used on metallic-tape-shielded cables may require external grounding components. See items HVS-GC and HV-Braid.
- Standard package: 3 kits/box
- Test report: EDR-5375

HVE-1590 for Installation of Elbow (15 kV)

FEATURES

- Pressure rated to 15 psi at 90°C
- Rated to the applicable requirements of ANSI-386

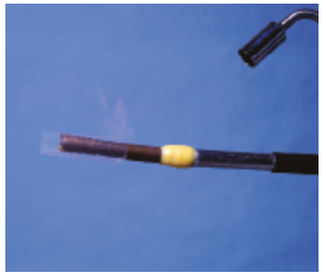
APPLICATIONS

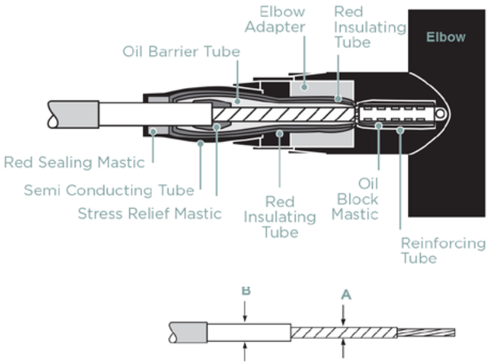
- TE Raychem HVE-1590 converts PILC cable to allow installation of dead-break elbow
- For use on 1/C PILC/VCLC cable

BENEFITS

- Provide a highly effective and easily installed oil stop system, using standard heat shrinkable components. The system provides an oil- and pressure-resistant seal
- Oil barrier tubing locks the oil in the PILC cables, converting each conductor into the polymeric equivalent

HVE-1590





PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	1/C 15 kV* PILC Conductor Size (Nominal)	Insulation O.D.		Lead Sheath O.D. (Max.) B	Adapter Type Elastimold
		(Min.) A	(Max.) B		
HVE-1591	#2 AWG-2/0	0.65 (16)	0.75 (19)	0.95 (24)	ELB-15/28-600-CA-F
HVE-1592	3/0-250 kcmil	0.75 (19)	0.95 (24)	1.10 (28)	ELB-15/28-600-CA-G
HVE-1593	300-500 kcmil	0.95 (24)	1.22 (31)	1.35 (34)	ELB-15/28-600-CA-H
HVE-1594	600-750** kcmil	1.22 (31)	1.35 (34)	1.50 (38)	ELB-15/28-600-CA-L

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number. All selections are based on the typical dimensions of 100% insulated cables manufactured in accordance with AEIC standard. Nominal insulation thickness (100%): 15 kV: 165 mils (PILC/VCLC).
- For cables manufactured to other specifications, confirm selection with cable dimensions.
- Standard package: One kit/box
- Related test reports: 15 kV: EDR-5269.

200A Loadbreak Elbows (15 kV, 25 kV)

FEATURES

- Peroxide cured EPDM rubber ensures low tension set and high dielectric strength
- 100% factory production tested for partial discharge and AC Hipot per IEEE 386
- Optional capacitive test point
- Molded semiconducting shield provides ground shield continuity in accordance with IEEE 592
- Conforms to IEEE Standard 386

APPLICATIONS

- TE Raychem loadbreak elbow connectors are designed to terminate underground cables to high-voltage apparatus such as transformers and switchgear that are equipped with bushings
- Designed for use on extruded XLPE or EPR) solid dielectric cable with conductor range from #1 AWG to 250 kcmil aluminum or copper conductors (insulation diameters from .575 to 1.304 inches)

BENEFITS

- Loadbreak elbows are designed for use with standard hotstick tools, which allows a loadmake/break operation with a physical disconnect
- The 200A loadbreak elbow kit includes a copper top compression connector, which connects the cable with the loadbreak probe. Connector is easy to crimp, and suitable for aluminum and copper conductors, and forms a reliable connection
- The elbow can be ordered with an integral jacket seal (part number suffix –ES), which is an environmental seal molded to the elbow that prevents moisture ingress



Ratings	15 kV	25 kV
Minimum Partial Discharge	11	19
Max Rating Phase-to-Ground	8.3	15.2
Max Rating Phase-to-Phase	14.4	26.3
AC 60 Hz 1 Minute Withstand (rms)	34	40
DC 15 Minute Withstand	53	78
BIL and Full Wave (Crest)	95	125

ELB-15-210

ELB-15 | 1 | 2 | 3 | 4

1 Current Rating | Test Point Code
200 = 200 AMP WITHOUT test point
210 = 210 AMP WITH test point

2 Cable Insulator O.D. Range		
Code	Inches	mm
A	.575 - .740	14.6 - 18.8
B	.640 - .905	16.2 - 23.0
C	.830 - 1.060	21.1 - 26.9
D	.930 - 1.220	23.6 - 31.0

3 Compression Lugs | Conductor Size (Aluminum or Copper)			
Code	Str/ Comp	Compact	Solid
3	3	2	2
2	2	1	1
1	1	1/0	1/0
10	1/0	2/0	2/0
20	2/0	3/0	3/0
30	3/0	4/0	4/0
40	4/0	250	250

4 Jacket Sealing	
Code	Type
Blank	No Jacket Seal
ES	Integral Jacket Seal

ELB-25-210

ELB-25 | 1 | 2 | 3 | 4

1 Current Rating | Test Point Code
200 = 200 AMP WITHOUT test point
210 = 210 AMP WITH test point

2 Cable Insulator O.D. Range		
Code	Inches	mm
B	.72 - .88	18.3 - 22.4
BB	.85 - 1.01	21.6 - 25.7
C	.92 - 1.08	23.4 - 27.4
D	1.04 - 1.20	25.4 - 30.5

3 Compression Lugs | Conductor Size (Aluminum or Copper)			
Code	Str/Comp	Compact	Solid
2	2	1	1
10	1/0	2/0	2/0
20	2/0	3/0	3/0
30	3/0	4/0	4/0
40	4/0	250	250

4 Jacket Sealing	
Code	Type
Blank	No Jacket Seal
ES	Integral Jacket Seal

RELATED TEST REPORT:
EDR-5574 (15 kV)
EDR-5581 (25 kV)

Elbow Kit Contents:
Elbow body
Copper top terminal
Loadbreak probe
Silicone lubricant
Installation instructions sheet
Probe installation tool
Sealing mastic (integral seal only)

Elbow Sealing and Grounding

FEATURES

- Grounding kits include a constant-force ground clamp and solder-blocked ground braid for external grounding
- Kits available with either heat shrink or cold applied seals
- Drain wire soldered onto braid included

APPLICATIONS

- Sealing and grounding kits for Copper Tape (CT) Shield cables when installing 200A and 600A Elbows or other Shielded Cable Accessories

BENEFITS

- Multiple part numbers to satisfy most grounding and sealing needs
- Used to seal and secure ground braids for most shielded cables

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Outside Diameter Minimum Insulation Shield	Maximum Cable Jacket	Voltage Class (kV)	Conductor Size
ELB-35-600 Series comes with a heat shrink seal				
ELB-35-600-GRD1	0.65 (17)	1.50 (38)	5	#2-500
			15	#2-500
			25	#1-3/0
ELB-35-600- GRD2	1.30 (33)	2.50 (63)	5	600-1000
			15	350-1000
ELB-35-600- GRD3	1.30 (33)	2.50 (63)	25	4/0-1000
			35	1/0-1000

Catalog Number	Cable Size 15 kV Class	Cable Size 25 kV Class	Cable Size 35 kV Class	Minimum Seal Diameter	Minimum Installed Diameter
Grounding Kit with Cold Applied Seal					
ELB-600-CES-GRD1 ELB-600-CES-GRD1-84	2 - 4/0 AWG	2 - 2/0 AWG	1/0 AWG	0.95	1.94
	(35 - 100 mm²)	(35 - 50 mm²)	(60 mm²)	(24)	(49)
ELB-600-CES-GRD2 ELB-600-CES-GRD2-84	2/0 - 1000 kcmil	1/0 AWG - 750 kcmil	1/0 AWG - 500 kcmil	1.28	2.67
	(70 - 500 mm²)	(60 - 380 mm²)	(60 - 250 mm²)	(33 mm)	(68 mm)
ELB-600-CES-GRD3 ELB-600-CES-GRD3-84	750 - 1500 kcmil	600 - 1250 kcmil	350 - 1250 kcmil	1.60	3.50
	(380 - 725 mm²)	(325 - 625 mm²)	(180 - 625 mm²)	(41 mm)	(89 mm)

Note: Kit -84 contains 84 inches long tinned copper braid

Catalog Number	Cable Size 15 kV Class	Cable Size 25 kV Class	Insulation Diameter (min-max)
Grounding Kit (no seal)			
ELB-200-GRD-1	2 - 4/0 AWG	2 - 2/0 AWG	0.5 - 1.0
	(35 - 100 mm²)	(35 - 100 mm²)	(13-25 mm)
ELB-200-GRD-2			
Grounding Kit with Cold Applied Seal			
ELB-200-CES-GRD-1	2 - 4/0 AWG	2 - 2/0 AWG	0.5 - 1.0
	(35 - 100 mm²)	(35 - 100 mm²)	(13-25 mm)

ADDITIONAL PRODUCT INFORMATION

- Reference the conductor size to verify proper sealing kit for selection.
- ELB-600 and ELB-200 series are suitable for use with 600A or 200A elbows.

Loadbreak Busing Inserts

FEATURES

- High quality peroxide-cured EPDM insulation
- Includes grounding tabs to attach a drain wire to maintain dead-front safety
- Provides insulated, fully shielded, submersible connection
- Conforms to ANSI/IEEE Standard 386

APPLICATIONS

- TE Raychem 200A Loadbreak Bushing Insert is available in 15 kV and 25 kV classes. The bushing insert connects to a universal bushing well and is used in field installation and replacement of loadbreak elbows

BENEFITS

- Bushing insert and elbow connectors provide fully shielded, submersible connection with conformance to IEEE Standard 386
- Interchangeable with other manufacturers' products that also comply with this standard
- Version with yellow indicator ring provides the installer a visual indication the elbow is properly seated on teh bushing insert



Current Ratings	A rms
Continuous Current	200
Switching Current	200
Fault-closure Current for 0.17s after 10 Switching Operations	10,000 symmetrical
Short-time Current for 0.17s	10,000 symmetrical
Short-time Current for 3.00s	3,500 symmetrical

Voltage Ratings	15 kV	25 kV
Minimum Partial Discharge	11	19
Max Rating Phase-to-Ground	8.3	15.2
Max Rating Phase-to-Phase	14.4	26.3
AC 60 Hz 1 Minute Withstand (rms)	34	40
DC 15 Minute Withstand	53	78
BIL and Full Wave (Crest)	95	125

PRODUCT SELECTION INFORMATION:

Catalog Number	Product Description	Voltage Class	Current Rating (A)
ELB-15-200-BI	15 kV Bushing Insert	15 kV	200
ELB-15-200-BI-IND	15 kV Bushing Insert with Indicator Ring	15 kV	200
ELB-25-200-BI-IND	25 kV Busing Insert with Indicatior Ring	25 kV	200

RELATED TEST REPORTS

EDR-5576 (15 kV), EDR-5580 (25 kV)

Insulating Caps (200 A)

FEATURES

- Provides insulated, fully shielded, submersible connection
- Conforms to the ANSI/IEEE Standard 386

APPLICATIONS

- TE Raychem 200A Insulating Cap is available in 15/25/35 kV class
- The insulating cap is meant to provide insulated, submersible protection for energized 15/25/35 kV loadbreak interfaces
- They can be used temporarily or permanently within padmount cabinets, underground vaults, switchgear, transformers, and a variety of other apparatus
- Typical applications include system maintenance, a circuit reconfiguration, and future expansion

BENEFITS

- Maintains ground potential on the cap's surface when the drain wire is connected to a common ground
- These insulating caps are therefore interchangeable with other manufacturers' products that also comply with IEEE standard 386



Voltage Ratings	15 kV	25 kV	35 kV
Minimum Partial Discharge	11	19	26
Max Rating Phase-to-Ground	8.3	15.2	21.1
Max Rating Phase-to-Phase	14.4	26.3	N/A
AC 60 Hz 1 Minute Withstand (rms)	34	40	50
DC 15 Minute Withstand	53	78	103
BIL and Full Wave (Crest)	95	125	150

PRODUCT SELECTION INFORMATION

Catalog Number	Attributes	Voltage Class (kV)	Current Rating
ELB-15-200-IC	15 kV Insulating Cap	15 kV	200
ELB-25-200-IC	25 kV Insulating Cap	25 kV	200
ELB-35-200-IC21	35 kV Insulating Cap (1ph Rated)	35 kV	200

RELATED TEST REPORTS

EDR-5575 (15 kV), EDR-5579 (25 kV)

ETP Elbow Tap Plugs

FEATURES

- Internal threads which accept the stud from the 200A elbow
- Available in 15/28/35 kV on the 600A side and 15/25 kV on the 200A side
- High quality peroxide cured EPDM rubber insulation

APPLICATIONS

- TE Raychem Elbow Tap Plug (ETP) provides a transition from a 600A deadbreak elbow to a 200A loadbreak interface
- This interface allows for live testing or the addition of a 200A loadbreak tap, elbow arrester or grounding elbow

BENEFITS

- A fully shielded, submersible connection is offered with conformance to IEEE Standard 38
- TE ETPs are interchangeable with other manufacturers' products that comply with this standard



Ratings		
Voltage Class - 600A Side (kV)	**AC 1 minute Withstand (kV rms)**	**Minimum Corona Level (kV rms)**
15	34	11
28	40	19
35	50	26

Current Ratings	
Description	A rms
Continuous Current	200
Switching Current	200
Fault-closure Current for 0.17s after 10 Switching Operations	10,000 symmetrical
Short-time Current for 0.17s	10,000 symmetrical
Short-time Current for 3.00s	3,500 symmetrical

RELATED TEST REPORTS
EDR 5575 (15 kV), EDR 5579 (25 kV)

Voltage Ratings			
Description	**15 kV**	**28 kV**	**35 kV**
Minimum Partial Discharge	11	19	26
Max Rating Phase-to-Ground	8.3	15.2	21.1
Max Rating Phase-to-Phase	14.4	26.3	N/A
AC 60 Hz 1 Minute Withstand (rms)	34	40	50
DC 15 Minute Withstand	53	78	103
BIL and Full Wave (Crest)	95	125	150

PRODUCT SELECTION INFORMATION

Catalog Number	Attributes	Voltage Class (kV)	Current Rating (A)
ELB-15/28-200-ETP15	15/28 kV (600) - 15 kV (200) 3ph rated ETP	15/28 kV	200
ELB-15/28-200-ETP25	15/28 kV (600) - 28 kV (200) 3ph rated ETP	15/28 kV	200
ELB-35-200-ETP21	35 kV (600) - 21 kV (200) 1ph rated ETP	35 kV	200

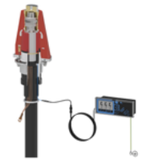
RPIT Plug-in Terminations up to 1250A, (52 kV)

FEATURES

- Covers 800 mm² and 1000 mm² cable up to 42 kV with size 3 bushing
- Shielded inline connection for gas-insulated switchgear and transformers up to 52 kV
- Metal-enclosed, hermetically insulated, and suitable for outdoor use
- Designed to be used for different conductor types per IEC 60228
- Optional voltage detection point up to 42 kV
- Compatible with EN 50180 and EN 50181 standardized inner cone bushings

APPLICATIONS

- Solar and wind energy
- Data centers and battery energy storage
- Rail and metro power solutions
- Oil and gas solutions
- Underground power networks



BENEFITS

- Ensures a reliable current transmission from the cable conductors to the busbars
- Enables grid monitoring thanks to the optional voltage detection point
- Offers a full line of accessories such as bushings, insulating caps and up-to-date testing tools

RPIT CONNECTORS TESTING DATA (ACCORDING TO CENELEC HD629.1. S2)

Parameters	Size 2	Size 3 / Size 3XL	
Product Image			
U0 / U	20.8/36	20.8/36	-
Um	42	42	-
DC withstand voltage 15 min (kV)	125	125	No breakdown or flash over
AC withstand voltage 5 min (kV)	93.5	93.5	No breakdown or flash over
PD at ambient temp (kV)	< 2 pC	< 2 pC	Max 10 pC at 2 U0
Impulse voltage at elevated temp (kV)	200	200	10 impulses of each polarity; no breakdown
Heating cycle voltage in air (kV)	52	52	63 cycles at 2.5 U0; no breakdown
Heating cycle voltage in water (kV)	52	52	63 cycles at 2.5 U0; no breakdown
Thermal short circuit conductor (kA)	31.8/2.93 sec	34.93/4.75 sec	2 short circuits to raise conductor to 250 deg C; no breakdown
Dynamic short circuit (kA)	125	125	1 short circuit at Id; no breakdown
Disconnection/Connection	5 x pass	5 x pass	5 complete operations; no visible damage to contact
Partial discharge at elevated and ambient temp (kV)	< 2 pC	< 2 pC	Max 10pC at 2 U0
Impulse voltage at ambient temp (kV)	200	200	10 impulses of each polarity; no breakdown
AC withstand voltage 15 min (kV)	52	52	No breakdown or flash over

Product Selection Information One Kit Contains a Set of 3 Plug-in Termination						
Catalog Number	**Size**	**Nominal Current (A)**	**System Voltage (kV)**	**Cross Section (mm²)**	**Diameter over conductor (mm)**	**Diameter over insulation (mm)**
RPIT - 321x	2	800	12	120 - 400	12.0 - 24.6	21.0 - 33.0
RPIT- 421x	2	800	24	50 - 400	7.6 - 24.6	21.0 - 39.0
RPIT - 521x	2	800	36/42	50 - 400	7.6 - 24.6	23.5 - 42.0
RPIT - 621x	3	1250	12	240 - 630	17.0 - 32.5	26.0 - 40.0
RPIT - 331x	3	1250	24	150 - 630	13.0 - 32.5	26.0 - 42.5
RPIT – 431x	3	1250	36/42	70 - 630	7.6 - 32.5	26.0 - 50.0
RPIT - 531x	3	1250	52	50 - 500	7.6 - 27.6	26.0 - 55.0
RPIT - 631x	3	1250	42	70 - 1000	7.6 – 39.2	26.0 – 58.8
RPIT - 831x	3	1250	52	50 - 500	7.6 - 27.6	26.0 - 55.0

ELBA Asymmetric Compact Elbow Connectors up to 600A (35 kV)

FEATURES

- 40% shorter stacking length from the standard double stack elbow connectors
- Lead-free peroxide-cured EPDM rubber
- 100% factory production tested for partial discharge and AC Hipot per IEEE 386-2016
- Capacitive test point option available
- Compliant with IEEE 386-2016 interface 13 and EN 50181 interface E-5/8"

APPLICATIONS

- Data centers
- Solar farms
- Underground power networks
- Onshore and offshore wind energy

BENEFITS

- Compact design reduces stacking length, providing valuable space
- Compatible with our TE Kries Voltage Detection System for grid monitoring
- High dielectric strength for improved insulation properties
- Fully shielded and submersible for better reliability
- Same cable cutbacks and compatibility with existing standard elbow connectors



Ratings
Voltage Class 35 kV
Max Rating Phase-to-Ground 21.1 kV
BIL and Full Wave Crest 150 or 200 kV BIL
Continuous 600A rms
24 Hours Overload 1,000A rms
Momentary:
25,000A Symmetrical 10 cycles
10,000A Symmetrical 3.00 sec

100% Production Test
Partial Discharge Minimum Extinction Voltage:
26 kV for 150 kV BIL
30 kV for 200 kV BIL
AC 1 Minute Withstand:
50 kV for 150 kV BIL
70 kV for 200 kV BIL

Test Reports
EDR 5805 - 150 kV BIL
EDR 5785 - 200 kV BIL

ORDERING FORMULA

ELBA-35-	1	2	3	4	5
90°C	Rating/Test point	BIL Level	Cable Insulation OD	Connector	CES
=ELBA-35-	61	0	R	A2	CES3
=ELBA-CC-35-	61	2	R	A2	CES3

1	Current Rating | Test Point Code
	60 = 600 AMP WITHOUT test point
	61 = 600 AMP WITH test point

2	Code BIL (kV)
0	150
2	200

3	Cable Insulation O.D. Range	
Code	Inches	mm
D	0.745 - 0.985	18.9 - 25.0
E	0.930 - 1.040	23.6 - 26.4
F	0.980 - 1.115	24.9 - 28.3
G	1.040 - 1.175	26.4 - 29.8
H	1.095 - 1.240	27.8 - 31.5
J	1.160 - 1.305	29.5 - 33.1
K	1.220 - 1.375	31.0 - 34.9
L	1.285 - 1.395	32.6 - 35.4
M	1.355 - 1.520	34.4 - 39.0
N	1.485 - 1.595	37.7 - 40.5
P	1.530 - 1.640	38.9 - 41.7
Q	1.575 - 1.685	40.0 - 42.8
R	1.665 - 1.785	42.3 - 45.3
S	1.775 - 1.875	45.1 - 47.6
T	1.845 - 1.965	46.9 - 50.0
U	1.935 - 2.055	49.1 - 52.2
V	2.025 - 2.145	51.4 - 54.5

4	Aluminum Shear Bolt & Conductor Size
Code	Compression, Compact, Strand
A1	2 - 4/0
A2	350 - 750
A3	600 - 1000
A4	1000 - 1250
A5	1500

5	Cable End Seal inch for neutral wire cable (mm)	
Code	Min Cable OD	Max Cable OD
CES1	0.85 (21.5)	1.42 (36)
CES2	1.28 (32.5)	2.13 (54)
CES3	1.61 (41.0)	3.22 (82)
	Cable Shield Ground for tape shield cable (mm)	
Code	Shield Diameter	Cable OD
CSG1	0.67 (17) - 1.18 (30)	0.85 (21.5) - 1.42 (36)
CSG2	1.18 (30) - 1.57 (40)	1.28 (32.5) - 2.13 (54)
CSG3	1.57 (40) - 2.36 (60)	1.61 (41) -3.22 (82)

Note: CSG includes sealing kit and grounding kit

ELBA Asymmetric Compact Elbow Connectors (up to 41 kV)

FEATURES

- Excellent protection margins
- Low residual voltages
- Excellent short circuit
- Excellent Temporary Over Voltage (TOV) performance
- Maintenance free

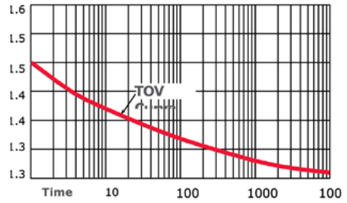
APPLICATIONS

- Data centers
- Solar farms
- Underground power networks
- Onshore and offshore wind energy

BENEFITS

- State-of-the-art gapless design, reducing power loss
- Highly modified silicone rubber characterized by high tracking resistance, elongation at break, and non-flammability
- Compatibility test with IEEE 386-2016 and the metal oxide arrester meets the requirements of IEC-60099-4





Temperature of samples (pre-heated): 60° C according to IEC 60099-4, Ed 2.0 2004. TOV Curve applies to an arrester which has a pre-stress applied prior to TOV verification. This prestress is equivalent to one high current impulse of 100kA, 4/10 as per the switching surge operating duty test.

U_w = TOV withstand voltage
U_c = continuous operating voltage

PRODUCT TECHNICAL SPECIFICATIONS

Rated Discharge Current I_N	10 kA
Operating Duty High Current Impulse 4/10 µs	100 kA
Short Circuit Current I_S	20 kA
Long duration current impulse (2ms)	212A

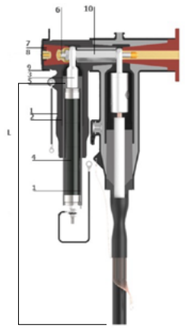
Part Description (ELBA-CC-35-SAXX)	ELBA-CC-35-SA15	ELBA-CC-35-SA22	ELBA-CC-35-SA26	ELBA-CC-35-SA30	ELBA-CC-35-SA37	ELBA-CC-35-SA41	ELBA-CC-35-SA45	ELBA-CC-35-SA48	ELBA-CC-35-SA51
Continuous operating voltage U_C	12.0	18.0	21.0	24.0	30.0	33.0	36.0	39.0	41.0
Rated voltage U_R	15.0	22.5	26.25	30.0	37.5	41.3	45.0	48.8	51.3
Length L (mm)	285.0	400.0	400.0	400.0	520.0	520.0	520.0	530.0	530.0
Weight (kg/pc)	4.4	4.6	4.7	4.8	5.0	5.1	5.1	5.2	5.3
Residual Voltage (kV)									
5 kA	39.1	58.6	68.4	78.2	97.7	107.5	117.3	127.1	133.6
10 kA	41.5	62.2	72.6	83.0	103.7	114.0	124.5	134.9	141.8
20 kA	45.7	68.5	80	91.4	114.2	125.6	137.1	148.5	156.1
Steep Lightning Current Impulse 1/20 µs	Residual Voltage (kV)								
10 kA	43.9	65.8	76.8	87.8	109.8	120.8	131.7	142.7	150.0

PARALLEL CONNECTIONS

1 x ELBA-35 (Base connector kit) | 1 x ELBA-CC-35-SAxx (Screened surge arrester kit with coupling connection)

DESIGN AND CONSTRUCTION

1. Screened body
2. Inner screen
3. Threaded lug
4. Surge arrester core
5. Earthing eye and ground lead
6. Thread stud
7. Insulating back plug
8. Test point
9. Conductive end cap
10. Coupling bolt



3



Chapter 4
High Voltage Cable Accessories, Substation Connectors

Splices, Terminations & Accessories 234
Tools 248
High Voltage Connection System 250

EHVS High Voltage Heat Shrink Splices up to 69 kV

FEATURES

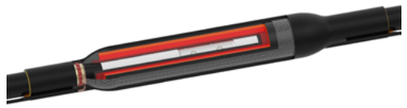
- Compact and modular design with heat-shrinkable stress control sleeves
- Torque controlled connector with proven shield continuity concept
- Short cut-back dimension with cable size transition possible
- Water and corrosion resistant
- No special tools required for installation
- Tested in accordance with IEEE 404 and IEC 60840

APPLICATIONS

- For use on wire shield, wire metallic tape shield, and metallic sheathed power cables

BENEFITS

- Independent of the manufacturer, it is compatible with polymeric insulated cables and may be modified for different cable configurations
- The size transition connector can link cables with different conductors and/or insulation diameters
- Internally precoated with adhesive for outer protection and lasting moisture sealing
- Heat shrinkable tube with a strong wall thickness



TECHNICAL SPECIFICATIONS - DIMENSIONS IN MM (INCHES)

ELECTRICAL DATA		
Rated voltage U_o/U (U_m)	26/46 (52) kV	36/66 (72.5) kV
Rated frequency	50/60 Hz	50/60 Hz
Basic impulse level	250 kV	325 kV
AC withstand voltage	65 kV	90 kV
Partial discharge at ambient and elevated temperature	39 kV	54 kV
Heating cycle voltage	52 kV	72 kV
FOR SHIELD BREAK JOINTS		
DC Voltage between metallic sheaths/screens	25 kV	25 kV
DC Voltage between metallic sheaths/screen and earthed exterior	25 kV	25 kV
Lightning impulse voltage between metallic sheath/screen	60 kV	60 kV
Lightning impulse voltage between metallic sheath/screen and earthed exterior	30 kV	30 kV
DESIGN DATA		
Diameter over insulation	30 – 93 (1.18 – 3.66)	
Max cross section	2500 mm² (3.88 inches²)	
Material of outer protection	WCSM (Polyolefin)	
Method of stress control	Impedance	
Type of screening	Inline, shield break & grounding	
Max. permissible dielectric stress	4 kV/mm (at insulation screen of cable)	
Installation temperature/storage	0°C to +40°C (32°F to +104°F)	
Operation temperature	-55° C – +55° C (-67°F to +131°F)	
MECHANICAL DATA		
Total length of the joint (approx.)	up to 1350 (53.15)	
Outer diameter of joint (approx.)	up to 135 (5.31)	
Weight approx.	10 kg (22.05 lbs)	
Packing information	1620 x 260 x 240 (63.78 x 10.24 x 9.45)	

PRODUCT SELECTION INFORMATION - DIMENSIONS IN MM (INCHES)

SIZES	DIAMETER OVER PREPARED CABLE INSULATION	DIAMETER OVER SHEATH
Size 1	30 – 45 (1.18 – 1.77)	≤ 60 (2.36)
Size 2	42 – 55 (1.65 – 2.17)	≤ 70 (2.76)
Size 3	52 – 65 (2.05 – 2.56)	≤ 80 (3.15)
Size 4	62 – 77 (2.44 – 3.03)	≤ 90 (3.54)
Size 5	70 – 93 (2.76 – 3.66)	≤ 115 (4.53)

OHVT/IHVT High Voltage Outdoor & Indoor Heat Shrink Terminations up to 72 kV

FEATURES

- Compact and modular design with heat-shrinkable stress control sleeves
- Non-tracking, water and corrosion resistant, no oil or compound filling
- No special tools required for installation
- Tested per IEEE 48 and IEC 60840

APPLICATIONS

- Applicable for any climates, areas, and environments, even severely polluted areas, as well as for any installation conditions, including top feed installation
- Can be used in utilities and industrial applications

BENEFITS

- The insulating tubes and the sheds have excellent erosion and tracking resistance
- Electrical stress control tubes are used to smooth out the electrical field at the cable end thanks to the unique electrical properties of the heat shrink material
- The cable lug is available in both crimp and shear-off bolt version suitable for any common conductors made of aluminum or copper



TECHNICAL SPECIFICATIONS - DIMENSIONS IN MM (INCHES)

MECHANICAL DATA					
Type	IHVT-52H	OHVT-52H	IHVT-72H	OHVT-72H	LHVT-72H
Length	800 (31.5)	920 (36.22)	1010 (39.76)	1260 (49.61)	1610 (63.39)
Outer diameter of sheds	up to 230 (9.06)				
Distance between sheds	up to 80 (3.15)		up to 90 (3.54)		
Weight approx	6 (13.23)	6.5 (14.33)	7 (15.43)	7.5 (16.53)	9.5 (20.94)
Packing information	1020 x 195 x 224 (40.16 x 7.68 x 8.82)	1600 x 245 x 205 (62.99 x 9.65 x 8.07)	1600 x 245 x 205 (62.99 x 9.65 x 8.07)	1600 x 245 x 205 (62.99 x 9.65 x 8.07)	1884 x 250 x 302 (74.17 x 9.84 x 11.89)
DESIGN DATA					
Diameter over insulation	30-77 (1.18–3.03)		30-86 (1.18–3.39)		
Max cross section	2500 mm² (3.88 inches²)				
Creepage distance	up to 2500 (98.43)		up to 1600 (62.99)	up to 2300 (90.55)	up to 3100 (122.04)
Flashover distance	up to 1100 (43.31)	up to 1540 (60.63)	850 (33.46)	1260 (49.61)	1550 (61.02)
Material of Insulator-outer surface	EVA - Ethylenevinylacetate				
Method of stress control	Impedance				
Max. permissible dielectric stress	4 kV/mm (at insulation screen of cable)				
Installation temperature/ Storage	0°C to +40°C (32°F to +104°F)				
Operation temperature	-55° C – +55° C (-67°F to +131°F)				
Clearance between terminations	As per IEC 60071-1				
ELECTRICAL DATA					
Rated voltage U_o/U (U_m)	26/46 (52) kV		36 / 66 (72.5) kV		
Rated frequency	50 / 60 Hz		50 / 60 Hz		
Basic impulse level	250 kV		325 kV		
AC withstand voltage (dry)	120 kV/min		175 kV/min		
AC withstand voltage (wet)	100 kV for 10 s		145 kV for 10 s		
DC withstand voltage (dry)	170 kV for 15 min		245 kV for 15 min		

PRODUCT SELECTION INFORMATION - DIMENSIONS IN MM (INCHES)

SIZES	DIAMETER OVER PREPARED CABLE INSULATION	DIAMETER OVER SHEATH
Size 1*	30 – 45 (1.18 – 1.77)	≤ 60 (2.36)
Size 2	38 – 55 (1.50 – 2.17)	≤ 70 (2.76)
Size 3	48 – 65 (1.89 – 2.56)	≤ 80 (3.15)
Size 4	58 – 77 (2.28 – 3.03)	≤ 100 (3.94)
Size 5**	70 – 86 (2.76 – 3.39)	≤ 110 (4.33)

** not available in LHVT*
*** not available in 52 kV*

EHVS-T Three-Piece Splice (138 - 170 kV)

FEATURES

- Torque-controlled connector
- Splice fits on all polymeric cable constructions
- Proven shield continuity concept
- Short cut-back dimensions
- No special tools required to install the splice
- Cable size transition possible
- No tension set of splice body
- Moulded outer conductive screen
- Geometrical electrical stress control by moulded conductive deflectors
- Type tested according to IEC 60840 and IEEE 404 Standards
- Manufactured according to ISO 9001 and ISO 14001

APPLICATIONS

- TE Raychem splice is a pre-fabricated three piece design for voltage classes up to 138 kV
- Outer Protection Options
- Heat-shrink Rejacketing
- Copper Casing
- Coffin Box
- Heavy Duty (Copper Casing and Coffin Box)

BENEFITS

- Polymeric insulated cables of various designs can be adapted with respect to shielding and metal sheath
- The silicone rubber joint parts with integrated geometrical stress control provides proven electrical function.
- The splice components combine electrical performance, stress control and moisture sealing to provide the important functions required for all high voltage products
- Special silicone rubber provides perfect compression force for optimizied electrical performance





ADDITIONAL PRODUCT INFORMATION

TECHNICAL DATA		138 kV
Rated voltage U_o/U (U_m)	kV	76/132 (145)
Basic impulse level	kV	650
Max. continuous operating temperature	°C	90
Max. conductor emergency temperature	°C	150
Conductor short circuit temperature	°C	250
Short circuit current (sheath)	kA / 1sec	50
For Shield Break Joints		
DC voltage between metallic sheaths/screens	kV	20
DC voltage between metallic sheath/screen and earthed exterior	kV	20
Lightning impulse voltage between metallic sheath/screen	kV	75
Lightning impulse voltage between metallic sheath/screen and earthed exterior	kV	37.5
Application Range		
Conductor up to	kcmil	3000
Diameter over insulation	inch (mm)	1.69-3.66 (43-93)

For special applications and bigger cable sizes please contact your TE representative.

EHVS-S One-Piece Splice (138 and 245 kV)

FEATURES

- Premoulded one-piece joint body
- Torque-controlled connector
- Choice of outer sealing and protection systems
- Splice fits on all polymeric cable constructions
- Proven shield continuity concept
- Simple assembly
- No tension set of joint body
- Moulded thick outer conductive screen
- Geometrical electrical stress control by moulded conductive deflectors
- Type tested according to IEC 60840, IEC 62067, GB 11017 Standards
- Manufactured according to ISO 9001 and ISO 14001

APPLICATIONS

- TE Raychem EHVW-S splice is a pre-fabricated one-piece design for voltage classes up to 230 kV
- Outer Protection Options
- Heat-shrink Rejacketing
- Copper Casing
- Coffin Box
- Heavy Duty (Copper Casing and Coffin Box)

BENEFITS

- Polymeric insulated cables of various designs can be adapted with respect to shielding and metal sheath
- The silicone rubber joint body with integrated geometrical stress control provides proven electrical function
- The splice components combine electrical performance, stress control and moisture sealing to provide the important functions required for all High Voltage products
- Special silicone rubber provides perfect compression force for optimizied electrical performance





ADDITIONAL PRODUCT INFORMATION

TECHNICAL DATA		138 kV	230 kV
Rated voltage U_o/U (U_m)	kV	76/132 (145)	127/220 (245)
Basic impulse level	kV	650	1050
Max. continuous operating temperature	°C	90	90
Max. conductor emergency temperature	°C	150	150
Conductor short circuit temperature	°C	250	250
Short circuit current (sheath)	kA / 1sec	50	50
Application Range			
Conductor	kcmil	2250	5000
Diameter over insulation	inch (mm)	2.20-3.07 (56-78)	2.80-4.69 (71-119)

For special applications and bigger cable sizes please contact your TE Connectivity representative.

OHVT-F Dry Flexible Terminations (69 - 145 kV)

FEATURES

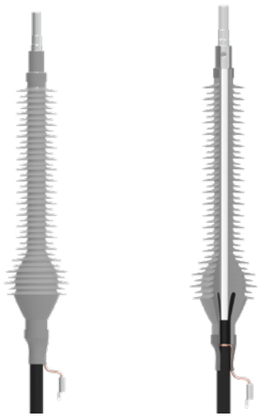
- Dry interface, solid insulating medium, no leakage risk
- Prefabricated and 100% factory tested
- No glueing needed
- No scaffolding cost, installation on ground
- Both vertical and horizontal installation possible
- Fittings made of corrosion-resistant alloy
- Type tested according to IEC 60840
- Cost-effective solution
- Easy to install and maintenance free

APPLICATIONS

- Designed for voltages up to 145 kV and to operate under severe environmental conditions
- The OHVT-F is designed such that it is compatible with polymeric insulated cables independent of the manufacturer and can be adapted with respect to grounding required for various cable constructions

BENEFITS

- Single piece push on solution which requires no glueing. The push on silicone body is formulated for excellent tracking resistance and pollution resistance due to its hydrophobic body
- Free from any insulating fluids, gases or gel and therefore, there is no risk of leakage



ADDITIONAL PRODUCT INFORMATION

TECHNICAL DATA		69 kV	138 kV
Rated voltage U_o/U (U_m)	kV	36/69 (72.5)	76/132 (145)
Basic impulse level	kV	325	650
Max. continuous operating temperature	°C	90	90
Max. conductor emergency temperature	°C	150	150
Conductor short circuit temperature	°C	250	250
Short circuit current (sheath)	kA / 1sec	50	50
Creepage (Pollution class IEC 60815)		a-e	a-e
Withstand voltage support insulators (AC/DC)	kV	10/20	10/20
Application Range			
Conductor	kcmil	5000	5000
Diameter over insulation: Composite	inch (mm)	1.34-3.82 (34-97)	1.34-3.82 (34-97)
Diameter over sheath	inch (mm)	4.33 (110)	4.33 (110)

All listed dimensions are standard size to serve the common application of these terminations.
For special applications and bigger cable sizes please contact your TE representative.

OHVT-FS Dry Flexible Self Supporting Termination (69 - 145 kV)

FEATURES

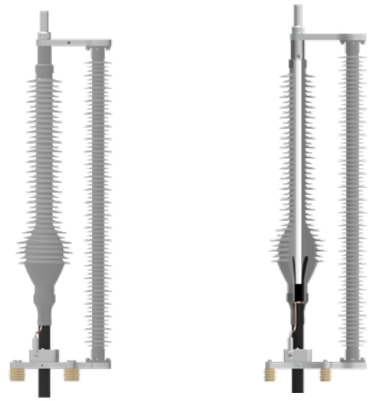
- Dry interface, solid insulating medium, no leakage risk
- Prefabricated and 100% factory tested
- No glueing needed
- No scaffolding cost, installation on ground
- Both vertical and horizontal installation possible
- Type tested according to IEC 60840
- Cost-effective solution
- Easy to install and maintenance free
- Self-support to enhance mechanical performance
- Termination ready for lifting after installation

APPLICATIONS

- Designed for voltages up to 145 kV and to operate under severe environmental conditions
- Compatible with polymeric insulated cables independent of the manufacturer and can be adapted with respect to grounding required for various cable constructions
- Instalation by trained installers.
- Suitable for all common conductors made of aluminum or copper

BENEFITS

- The cold applied termination is a single piece push on solution which requires no glueing
- The push on silicone body is formulated for excellent tracking resistance and pollution resistance due to its hydrophobic body
- Free from any insulating fluids, gases or gel and therefore, there is no risk of leakage
- The termination comes with a support insulator to enhance its mechanical performance
- All the metal fittings are made out of corrosion-resistant alloy



ADDITIONAL PRODUCT INFORMATION

TECHNICAL DATA		69 kV	138 kV
Rated voltage U_o/U (U_m)	kV	36/69 (72.5)	76/132 (145)
Basic impulse level	kV	325	650
Max. continuous operating temperature	°C	90	90
Max. conductor emergency temperature	°C	150	150
Conductor short circuit temperature	°C	250	250
Short circuit current (sheath)	kA / 1sec	50	50
Creepage (Pollution class IEC 60815)		a-e	a-e
Withstand voltage support insulators (AC/DC)	kV	10/20	10/20
Application Range			
Conductor	kcmil	5000	5000
Diameter over insulation: Composite	inch (mm)	1.34-3.82 (34-97)	1.34-3.82 (34-97)
Diameter over sheath	inch (mm)	4.33 (110)	4.33 (110)

All listed dimensions are standard size to serve the common application of these terminations.
For special applications and bigger cable sizes please contact your TE representative.

OHVT-G Composite, Gel-Filled Outdoor Terminations (69 - 170 kV)

FEATURES

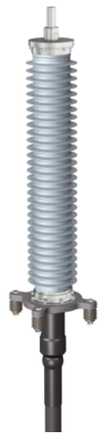
- Pressure-tight and lightweight composite housing
- Prefabricated and factory-tested silicone rubber stress cone
- No special tools or gluing required to install the termination
- Rayfil® gel filling prevents leaks
- Ready for use after installation
- Type-tested and Routine-tested according to IEC 60840 standards
- No additional training required - similar design as standard OHVT-C

APPLICATIONS

- For voltages up to 170 kV and to operate under severe environmental conditions
- Compatible with polymeric insulated cables independent of the manufacturer and can be adapted with respect to grounding required for various cable constructions

BENEFITS

- Pressure-tight composite housing is made of a glass fiber reinforced (GFR) resin tube with silicone rubber sheds molded to the tube
- The metal fitted associated with the termination consists of a corrosion-free alloy
- The cable lug is available both in crimp and shear-off bolt version
- Suitable for all common conductors made of aluminium or copper
- The interface between stress cone, cable insulation and inner housing will be filled from the top with fast curing gel
- The advantage of a dry type termination over a conventional oil filled type is that the gel filling cures over a time period causing no leakages





ADDITIONAL PRODUCT INFORMATION

TECHNICAL DATA		69 kV	138 kV	170 kV
Rated voltage U_o/U (U_m)	kV	36/69 (72.5)	76/132 (145)	87/161 (170)
Basic impulse level	kV	325	650	750
Max. continuous operating temperature	°C	90	90	90
Max. conductor emergency temperature	°C	150	150	150
Conductor short circuit temperature	°C	250	250	250
Short circuit current (sheath)	kA / 1sec	50	50	50
Creepage (Pollution class IEC 60815)		a-e	a-e	a-e
Withstand voltage support insulators (AC/DC)	kV	10/20	10/20	10/20
Application Range				
Conductor	kcmil	5000	5000	5000
Diameter over insulation: Composite	inch (mm)	1.34-3.82 (34-97)	1.34-3.82 (34-97)	1.34-4.25 (34-108)
Diameter over insulation: Porcelain	inch (mm)	1.34-2.91 (34-74)	1.34-2.91 (34-74)	—
Diameter over sheath	inch (mm)	4.33 (110)	4.33 (110)	4.69 (119)

OHVT-C Composite, Oil-Filled Outdoor Terminations (69 - 230 kV)

FEATURES

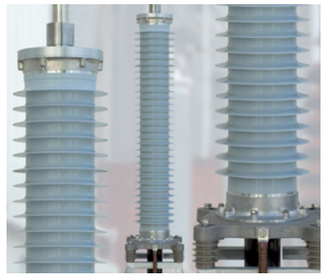
- Composite or porcelain housings with different creepage lengths are available covering the most common and extreme pollution levels
- The termination is designed according to following standards: IEC-60840, IEC-62067, IEC-60815, IEEE-48, IEEE-1313

APPLICATIONS

- TE Raychem OHVT high voltage outdoor termination system is designed for voltage up to 230 kV and to operate under severe environmental conditions

BENEFITS

- Polymeric insulated cables of various designs can be adopted with respect to shielding and metal sheath
- The installation of the termination can be done by trained installer equipped with conventional tools





ADDITIONAL PRODUCT INFORMATION

TECHNICAL DATA		69 kV	138 kV	170 kV	230 kV
Rated voltage U_o/U (U_m)	kV	36/69 (72.5)	76/132 (145)	87/161 (170)	127/220 (245)
Basic impulse level	kV	325	650	750	1050
Max. continuous operating temperature	°C	90	90	90	90
Max. conductor emergency temperature	°C	150	150	150	150
Conductor short circuit temperature	°C	250	250	250	250
Short circuit current (sheath)	kA / 1sec	50	50	50	50
Creepage (Pollution class IEC 60815)		a-e	a-e	a-e	a-e
Withstand voltage support insulators (AC/DC)	kV	10/20	10/20	10/20	10/20
Application Range					
Conductor	kcmil	5000	5000	5000	5000
Diameter over insulation: Composite	inch (mm)	1.34-3.82 (34-97)	1.34-3.82 (34-97)	1.34-4.25 (34-108)	2.80-4.69 (71-119)
Diameter over insulation: Porcelain	inch (mm)	1.34-2.91 (34-74)	1.34-2.91 (34-74)	—	2.80-4.69 (71-119)
Diameter over sheath	inch (mm)	4.33 (110)	4.33 (110)	4.69 (119)	6.30 (160)

All listed dimensions are standard size to serve the common application of these terminations.
For special applications and bigger cable sizes please contact your TE representative.

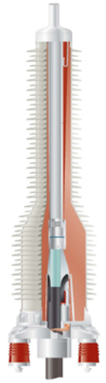
OHVT-D Dry Self-Supporting Outdoor Terminations

FEATURES

- Free from any insulating liquid or gel
- Polymeric insulated cables of various designs can be adopted with respect to shielding and metal sheath
- Its mechanical performance is similar to conventional oil-filled terminations with composite housing
- The termination is easily separable and consists of a plug-in part and an epoxy resin insulator protected with a directly moulded silicone shed housing
- Dry interface, no oil-filling and Self-supporting
- Prefabricated and factory tested silicone-rubber stress cone
- Torque-controlled multi-contact conductor bolt
- Long creepage length
- Type tested according to IEC 60840

APPLICATIONS

- Designed for voltage class 138 kV and operation under severe environmental conditions



BENEFITS

- Due to the short cable cut-back dimensions of the plug-in, the time required to install the termination is very short and can be further reduced in case of short cable links by preinstalling the plug-in on the shop floor
- The plug-in is like the plug-in used with our dry switchgear/transformer termination
- Fast and simple installation combining GIS plug-in technology with polymeric insulators
- No special tools required to install the termination
- Isolated cable gland for sectionalization
- The polymeric housing with long creepage length covers extreme pollution levels according to IEC 60071-1 1996, IEC 60071-2 1996 and IEEE-1313.1-1996

TECHNICAL SPECIFICATIONS - DIMENSIONS IN MM (INCHES)

ELECTRICAL DATA	
Relevant standard	IEC 60840
Rated voltage U_o/U (U_m)	76/132 (145) kV
Rated frequency	50/60 Hz
Lightning impulse voltage 1,2/50µs	650 kV
Power frequency voltage withstand dry (1 min)	310 kV
Power frequency voltage withstand wet (10 s)	275 kV
DC voltage withstand (15 min)	355 kV
Rated current	as per cable (kA)
Rated short-circuit current (conductor)	as per cable (kA)
Rated short-circuit current (sheath) 1s	50 kA
Total creepage distance	4680 (184.25)
Protected creepage distance (90° shadow)	1820 (71.65)
Flash-over distance	1320 (51.97)
Withstand voltage of support insulators (AC/DC)	10/20 kV
MECHANICAL DATA	
Length without connection bolt	1751 (68.94)
Outer diameter of insulator	410/260 (16.14/10.24)
Inner diameter of insulator	312/166 (12.28/6.54)
Cantilever force	5000 N
Max. permissible radial pull at connection bolt	2000 N
Diameter of connection bolt	50 (1.97)
Length of connection bolt	100/130 (3.94/5.12)
Earth connection	4 x M12
Weight approx.	130 kg (286.60 lbs)
Silicone-Oil volume approx.	170 l

DESIGN DATA	
Diameter over insulation	34 – 78 (1.34 – 3.07)
Diameter over sheath	<120 (4.72)
Cable screen types	Cu-wires w/o laminated foil, lead sheath, corrugated metal sheath, Cu-tape (other types and combinations on request)
Max. Cross section (Cu / Al)	Approx. 1200 mm² (1.86 inches²)
Conductor connection	Mechanical (shear head bolts) / compression
Material of connection bolt	Aluminium / copper
Material of insulator – outer surface	Silicone rubber
Profile of insulator	Alternating sheds
Colour of insulator	Grey
Method of stress control	Geometric
Stress cone	Pre-fabricated silicone rubber
Max. permissible dielectric stress	4 kV/mm (at insulation screen of cable)
Insulating liquid	None
Material of fittings	Aluminium
Clearance between terminations	As per IEC 60071-1
Installation temperature	0°C - +50°C (32°F to +122°F)
Operation temperature	-55°C – +55°C (-67°F to +131°F)
Storage temperature	0°C to +40°C (32°F to +104°F)

PHVS/PHVT High Voltage Dry Plug-In Switchgear Terminations up to 145 kV

FEATURES

- Dry interfaces, no oil-filling and pressure-tight resin housing
- Prefabricated and factory tested silicone-rubber stress cone
- Torque-controlled multi-contact conductor bolt
- No special tools are required to install the termination
- Insulated cable gland for sectionalization
- Insulator complies with IEC 62271-209 and IEC 62271-203
- Type tested according to IEC 60840 and IEC 62067

APPLICATIONS

- Designed to be installed in cable entry housings of gas insulated switchgear (GIS)



BENEFITS

- The plug-in part consists of the pre-moulded silicone body for stress control and a mechanical cable lug for easy installation
- The epoxy insulator can be installed directly at the GIS manufacturer, saving installation time on-site and reducing the risk of contamination of the cable entry housing
- In the case of short cable links and due to the short length and light weight of the plugin part it can be also pre-installed by the cable manufacturer, further reducing the time required to install a substation

TECHNICAL SPECIFICATIONS - DIMENSIONS IN MM (INCHES)

MECHANICAL DATA	
Construction length (with IEC adapter)	470 (757) mm; 18.5 (29.8) inches
Operating pressure SF6	0,35 – 0,85 MPa
Earth connection	6 x M12
Cantilever force	4.5 kN
Weight Approx. **a. PHVS (Insulator)** **b. PHVX (Plug-in)**	a. 45 kg (99.21 lbs) b. 40 kg (88.18 lbs)
Packaging information **a. PHVS (Insulator)** **b. PHVX (Plug-in)**	a. 470 × 390 × 650 (18.5 × 15.35 × 25.59) b. 700 × 390 × 650 (27.56 × 15.35 × 25.59)
DESIGN DATA	
Diameter over prepared insulation	34 – 108 (1.34 – 4.25)
Diameter over sheath	Up to 135 (5.31)
Cross section (Cu / Al)	Up to 2500 mm² (3.15 inches²)
Conductor connection	Mechanical (shear off bolts)
Material of housing	Epoxy resin
Material of connection bolt	Aluminium / Copper
Method of stress control	Geometric
Type of stress cone	Pre-fabricated silicone rubber
Max. permissible dielectric stress	4 kV/mm (at insulation screen of cable)
Corona shield	Not required for GIS
Installation temperature	0°C to +40°C (32°F to 104°F)
Operation temperature	As per equipment
Storage temperature	0°C to +40°C (32°F to 104°F)

MECHANICAL DATA	
Electrical Type Test IEC 60840	
Heating cycle voltage	152 kV
Partial discharge at ambient and elevated temperatures	114 kV
Lightning impulse voltage 1.2µs/50µs	650 kV
ELECTRICAL ROUTINE TEST IEC 60840	
AC withstand voltage	190 kV
Partial discharge test	114 kV
ELECTRICAL TYPE TEST IEC 60840 H.6 (ALTERNATIVE INSULATING GASES)	
g³ - F35-41g (GE), EconiQ ELK-3 (Hitachi)	



Adapters are available to match the dimensions of wet (oil-filled) type terminations, and older designs specified in IEC 60859. The termination operates in SF6 but also in insulating liquids like transformer oil.

A corona shield at the top of the termination then provides the necessary shielding of the terminal.

OHVT-72HS Heat Shrink Self-Supporting Terminations (up to 69 kV)

FEATURES

- Self-supporting design with a insulator
- Available for different creepage lengths
- No special tools required for installation
- Isolated base plate for sectionalizing
- Fittings made up of corrosion-resistant alloy
- Easy lifting of installed termination from ground

APPLICATIONS

- Designed for operating voltages up to 72 kV
- Can operate under severe environmental conditions
- Compatible with polymeric insulated cables independent of the manufacturer and can be adapted for various cable constructions
- Can be combined with the SIMAFLEX high voltage clamps which are designed to support and connect overhead aluminium flexible conductors to copper or aluminium equipment terminals

BENEFITS

- Self-supporting insulator structure is available for heat shrink terminations up to 72 kV with different creepage lengths, covering the most common and extreme pollution levels
- Isolated base plate for sectionalizing. The metal fitting associated with the termination are manufactured from corrosion-resistant alloy

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

TECHNICAL DATA		
	52 kV	**73 kV**
Rated voltage U_o/U (U_m)	26 /46 (52) kV	36 /69 (72.5) kV
Basic impulse level	250 kV	325 kV
Heating cycle voltage	52 kV	72 kV
Partial discharge voltage	39 kV	54 kV
AC voltage withstand	65 kV	90 kV
Short circuit current (sheath)	40 kA / 1 sec	40 kA / 1 sec
Creepage (Pollution class IEC 60815)	a – e	a – e
Application Range		
	52 kV	**72 kV**
Maximum Conductor	3000 kcmil (1500 mm2)	3000 kcmil (1500 mm2)
Diameter over Insulation	1.18-3.03" (30-77mm)	1.18-3.39" (30-86mm)
Maximum Diameter over Jacket	Maximum 3.94" (100mm)	Maximum 3.94" (100mm)

High Voltage Link Box (HVLB-SICO)

FEATURES

- Impulse withstand: 65 kV
- Short circuit current: 63 kA/1 s
- Internal power arc: 25 kA/0,1 s
- Tight against water and dust according to protection class IP688
- Gland sealing with WCSM heat shrinking tube
- Sequential serial number for each link box

APPLICATIONS

- Provides a sealed and dry environment for high voltage cable sheath earthing connection. It reduces voltages and circulating currents
- Within the HVLB-SICO-SVL link box, the cable sheath is earthed via a Sheath Voltage Limiter (SVL)
- The HVLB--SICO-GND link box is used to earth the cable sheath direct to the ground without a SVL
- Within the HVLB-COAX-CRO link box the cable sheaths are crossbonded

BENEFITS

- Gasket-lid system protects against water and dirt and is equipped with a proof device for security
- Higher reliability due to uniformed distance between electrical path, and a short-circuit-yoke for improved impulse-voltage and short-circuit withstand



TECHNICAL INFORMATION	
Material of the housing	SS304 / X5CrNi17-10
Surface painting	RAL7035, thickness 0,08, fine structure outdoor
Optional	Offshore protection
Optional	Plexiglass cover (protection against accidental contact)

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

PRODUCT SELECTION - BASIC TYPES					
	# of Cable Entrys	Size of SVL	Housing Earthing Type	Cable Port Specification	Modification
Basic description		1 kV: CPA-01-017 2 kV: CPA-02 3 kV: CPA-03-017 4 kV: CPA-04 5 kV: CPA-05 6 kV: CPA-06-017 7 kV: CPA-07 8 kV: CPA-08	sep = separately col = collective	S1 = 0 - 95 mm2 S2 = 95 -240 mm2 S3 = 240 - 400 mm2 C8 = 500 mm2 S = shear bolt C = crimp	M01 (standard) Mxx (customer specific)
Direct Grounding					
HVLB-SICO-GND	1E	./.	sep / col	S1 / S2 / S3 / C8	M01 / Mxx
HVLB-SICO-GND	3E	./.	sep / col	S1 / S2 / S3 / C8	M01 / Mxx
HVLB-SICO-GND	6E	./.	sep / col	S1 / S2 / S3 / C8	M01 / Mxx
Via Sheath Voltage Limiter (SVL)					
HVLB-SICO-SVL	1E	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 kV	sep / col	S1 / S2 / S3 / C8	M01 / Mxx
HVLB-SICO-SVL	3E	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 kV	sep / col	S1 / S2 / S3 / C8	M01 / Mxx
Cross Bonding					
HVLB-SICO-CRO	OUT	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 kV	sep / col	S1 / S2 / S3 / C8	M01 / Mxx
CREATION OF PRODUCT DESCRIPTION SHOWN BY THE EXAMPLE OF HVLB-SICO-SVL-1E-6 KV-COL-S2-M01					
HVLB-SICO-SVL	1E	6 kV	col	S2	M01

Link Boxes Cross for High-Voltage Cable Systems

FEATURES

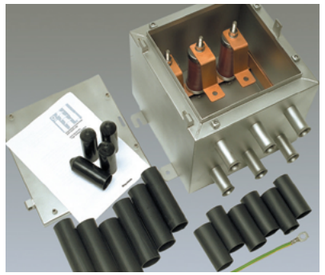
- IP-56 rated.
- Can be installed on poles and other above ground structures (not for submersible applications)
- Use with single core lead
- Cross section up to 250 kcmil with IP-56
- Direct grounding
- Single point bonding
- Cross bonding and transposition
- Sheath voltage limiters (SVL) 1 kV up to 8 kV, tested as IEC 60099
- Short circuit rate up to 50 kA @ 1 sec.

APPLICATIONS

- Lightning, fault currents and switching operations can cause overvoltages on the cable sheath. Link boxes are used with cable joints and terminations to provide easy access to shield breaks for test purposes and to limit voltage build-up on the sheath.
- The link box optimizes loss management in the cable shield on cables grounding both sides.

BENEFITS

- Tested to ANSI/IEEE Std. 575.
- Overvoltage management on cable system.
- Protects cable from damage caused by induced voltage and current.
- CIGRE/ELECTRA recommendations for cross bonding (Larger cable cross sections on request)



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Reference Application	Sheath Voltage Limiter	Number of Phases	Dimensions		
				L	W	H
EPPA-055-0/1	Direct grounding	---	1	11.81 (300)	7.48 (190)	6.50 (165)
EPPA-055-3/1	Cross bonding	3 kV	1	11.81 (300)	7.48 (190)	6.50 (165)
EPPA-055-6/1	Cross bonding	6 kV	1	11.81 (300)	7.48 (190)	6.50 (165)
EPPA-055-0/3	Direct grounding	---	3	12.20 (310)	12.20 (310)	10.04 (255)
EPPA-055-3/3	Cross bonding	3 kV	3	12.20 (310)	12.20 (310)	10.04 (255)
EPPA-055-6/3	Cross bonding	6 kV	3	12.20 (310)	12.20 (310)	10.04 (255)

ADDITIONAL PRODUCT INFORMATION
Test Reports: PPR 1168 Type Test of Link Box LBOX3-ZnO-3
PPR 1449 Type Test of Link Box EPPA-055-6/3

Termination Lifting Device Outdoor Terminations

FEATURES

- Simplifies placement and mounting onto the rack on the pylon
- Applicable for all TE terminations up to 138 kV
- Adjustable to all common cable sizes up to a diameter over cable sheath of 110 mm
- Easy assembly and handling

APPLICATIONS

- The Lifting Device ensures a safe and easy installation of TE's outdoor terminations on high positioned mounting places

BENEFITS

- The installer can do the complete installation of the termination on the ground including the oil filling and then lifting up the termination to the high positioned mounting place.
- Mounting the termination onto the rack is the only work step the installer has to do on the pylon.



EHVT-BP Cable Mounting Base Plate

FEATURES

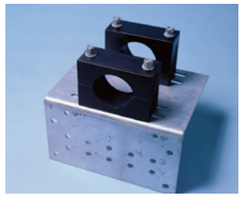
- The plate comes suitably drilled for attaching to supporting steelwork or cross arms that have been drilled to accept steelwork for various porcelain insulator type terminations

APPLICATIONS

- The base plate is a galvanized steel plate intended for use with TE heat shrink EHVT/GHVT terminations together with TE Raychem cable clamps support brackets.

BENEFITS

- It is especially useful when retrofitting old porcelain terminations with heat shrink terminations.
- It has suitable spaced slots to accommodate two TE Raychem cable clamp support brackets.



PRODUCT SELECTION INFORMATION

Catalog Number	Reference Application
EHVT-BP	1 base plate per box



HVIA-Stripper 35/90-US:
Stripping tool for cable semicon and primary insulation for cable diameters from 1.37-3.54 inches (35-90 mm)

HVIA-Stripper 75/150-US:
Stripping tool for cable semicon and primary insulation for cable diameters from 2.95-5.90 inches (75-150 mm)

Replacement blades for HVIA-Stripper
EXRM-0982-I-22.5 for removing insulation layer
EXRM-0982-R-20-4 for removing semi-conductor layer

High Voltage Heating Blanket | Slide Rails with Clamps



HVIA-CABLE-HEATING-BLANKET:
Cable heating blankets



Screw Clamps
Accessory to Heating Blanket



HVIA-SLIDE-RAIL-1580:
Slide rail

SIMABUS Substation Connector System for Aluminum Tube

FEATURES

- Modular design: configures to virtually any busbar size
- Suitable in new and retrofit applications with flexibility throughout the design
- Top electrical performance
- High strength mechanical components
- High quality casted components

APPLICATIONS

- Product line of extra high voltage substation connectors and clamps, designed for rigid bus connections in AC & DC applications up to 550 kV for both Metric and Imperial sizes.
- The Imperial range covers aluminum tubular bus conductors from 2.5" to 6" for both SPS and EHPS diameters.

BENEFITS

- The line includes mechanical support, joints, derivations and connections to terminal equipment (stud & pads), as well as accessories such as grounding stirrups, end caps/shieldings and dampers.







ADDITIONAL PRODUCT INFORMATION

TECHNICAL DATA	
Voltage	66 kV to 550 kV max
Current	1250 A to 5200 A
Short-time current	40 kA/3 sec to 80 kA/1 sec
Busbar size	2.5" IPS O/D up to 6" IPS O/D for both SPS and EHPS sizes (Additional sizes available)
Terminal fixing	Fixed or expansion type, to connect square or rectangular palms of high voltage equipment, as well as solid studs in aluminum or copper from 1.18" and up to 2.36" O/D
Post insulator connections	3" PCD to 10.8" PCD
Material	High-grade aluminum alloy
Fasteners	Stainless steel hardware with pre-waxed nuts to ensure pressure contact efficiency and contact reliability. Avoids bolts seizure during tightening operation.
Standards	ANSI/NEMA & IEC compliant
Expansion connectors	Expansion type connectors are equipped with multiple 721 SAL or 910 SAL conductor arragements

Aluminum Bus Sizes

BUSBAR SIZE	Imperial	2.5 "	3"	3.5"	4"	5"	6"
O/D IPS	(Inch)	2.875	3.5	4	4.5	5.563	6.625
I/D (SPS or Sch 40)	(Inch)	2.469	3.068	3.548	4.026	5.047	6.065
I/D (EHPS or Sch 80)	(Inch)	2.323	2.9	3.364	3.826	4.813	5.761

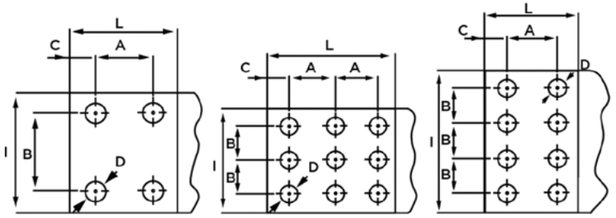
For special applications and bigger bus sizes please contact your TE representative.

Full offering catalogs available for SIMABUS & SOMAFLEX connectors, please contact your TE representative.

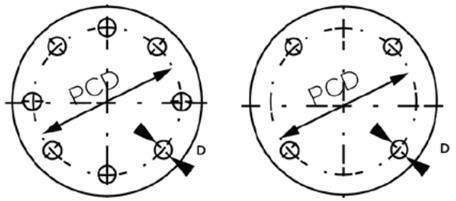
SIMABUS Substation Connector System for Aluminum Tube

TECHNICAL DATA							
Electrical Duty (Given by the ANSI/NEMA CC1 Standard - Outdoor Conditions)							
		2.5"	3"	3.5"	4"	5"	6"
In (min) Sch 40	(A)	2000	2550	3050	3400	4100	4700
In (Max) Sch 80	(A)	2400	2950	3400	3800	4600	5200
Terminal Studs							
Available from 1-1/2", 2", 2-1/2", 3" Dia in both Aluminum or Copper material							
Terminal Pad Connections							
Available from 3"x3 " through 4"x4", 4"x5", 4"x6" NEMA Standards and up to 4"x8" according to DIN Standards							

Standard	N° Holes	L	I	A	B	C	D
NEMA	4	3"	3"	1.75"	1.75"	0.63"	0.56"
		4"	4"	1.75"	1.75"	1.13"	0.56"
	6	4"	5"	1.75"	1.75"	1.13"	0.56"
		4"	6"	1.75"	1.75"	1.13"	0.56"
DIN	8	4"	8"	1.97"	1.97"	1"	0.57"



PCD (mm)	N° Holes	D
3 Inch	4	0.56"
5 Inch	8	0.7"
7 Inch		0.86"
8.86 Inch (225 mm)		0.7"
10 Inch		0.7"
10.8" (275 mm)		0.7"



For special applications and bigger bus sizes please contact your TE representative.

Full offering catalogs available for SIMABUS & SOMAFLEX connectors, please contact your TE representative.

SIMAFLEX Substation Connector System for Aluminum Cable

FEATURES

- Designed to withstand the high mechanical stress of Extra High Voltage (EHV) substations
- Customizable to application requirements offering 2-3 keeper solutions from one product range
- High electrical performance with in-house machining combined with waxed bolts
- Adjustable connectors

APPLICATIONS

- Product line of extra high voltage substation clamps and connectors, designed for stranded bare conductors in AC & DC applications up to 550 kV for both Metric and Imperial sizes.
- The range includes mechanical support, derivations, connections to terminal equipment (stud & pads), transition connection to rigid aluminum busbars, as well as accessories such as grounding stirrups and spacers.

BENEFITS

- The Imperial range covers connectors for aluminum stranded conductors from 266.8 MCM (0.609") and up to 3500 MCM (2.159") and transition connections to aluminum tubular conductors from 2.5" to 6" for both SPS and EHPS dimensions.
- Connections for Single, Twin, Triplex and Quad conductors bundle configurations are available from 100 MM (4") to 450 MM (18").









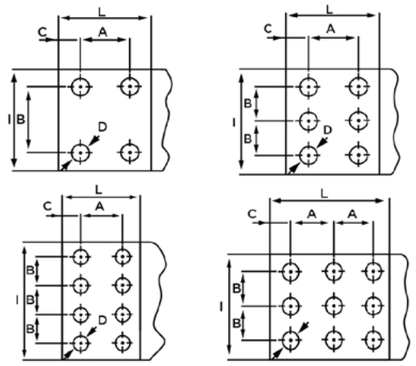
ADDITIONAL PRODUCT INFORMATION

TECHNICAL DATA							
Voltage	63 kV to 550 kV (depending on the conductor's bundle configuration)						
Current	100 A and up to 4000 A						
Short-time current	40 kA / 3 sec and up to 80 kA / 1sec						
Connector size/ Conductor size	Small 266.8 to 1200 MCM	Medium 795 to 2000 MCM	Large 2250 to 3500 MCM				
Conductor's bundle spacing	4", 6" 8", 12", 16" and up to 18" nominal						
Terminal fixing (stud)	Threaded studs in aluminum or copper from 1-1/2", 2", 2-1/2" and 3"						
Terminal fixing (pad)	From 3" x 3", 4" x 4" 4" x 5", 4" x 6"						
Post insulator's interfaces	3" PCD and up to 10.8" Inch PCD						
Material	High-grade aluminum alloy						
Fasteners	Stainless steel hardware with pre-waxed nuts to ensure pressure contact efficiency and contact reliability. Avoids bolts seizing during tightening operation.						
Standards	ANSI/NEMA & IEC Compliant						
Aluminum Bus Sizes (For Transition Connectors)							
BUSBAR SIZE	(Inch)	2.875	3.5	4	4.5	5.563	6.625
O/D	(Inch)	2.469	3.068	3.548	4.026	5.047	6.065

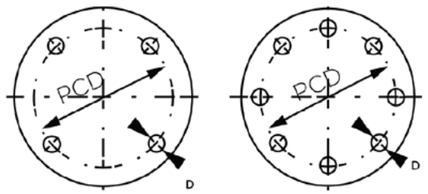
SIMAFLEX Substation Connector System for Aluminum Cable

Terminal Studs
Available from 1-1/2", 2", 2-1/2", 3" Dia in both aluminum or copper material
Terminal Pad Connections
Available from 3" x 3 " through 4" x 4", 4" x 5", 4" x 6" NEMA standards and up to 4" x 8" according to DIN standards

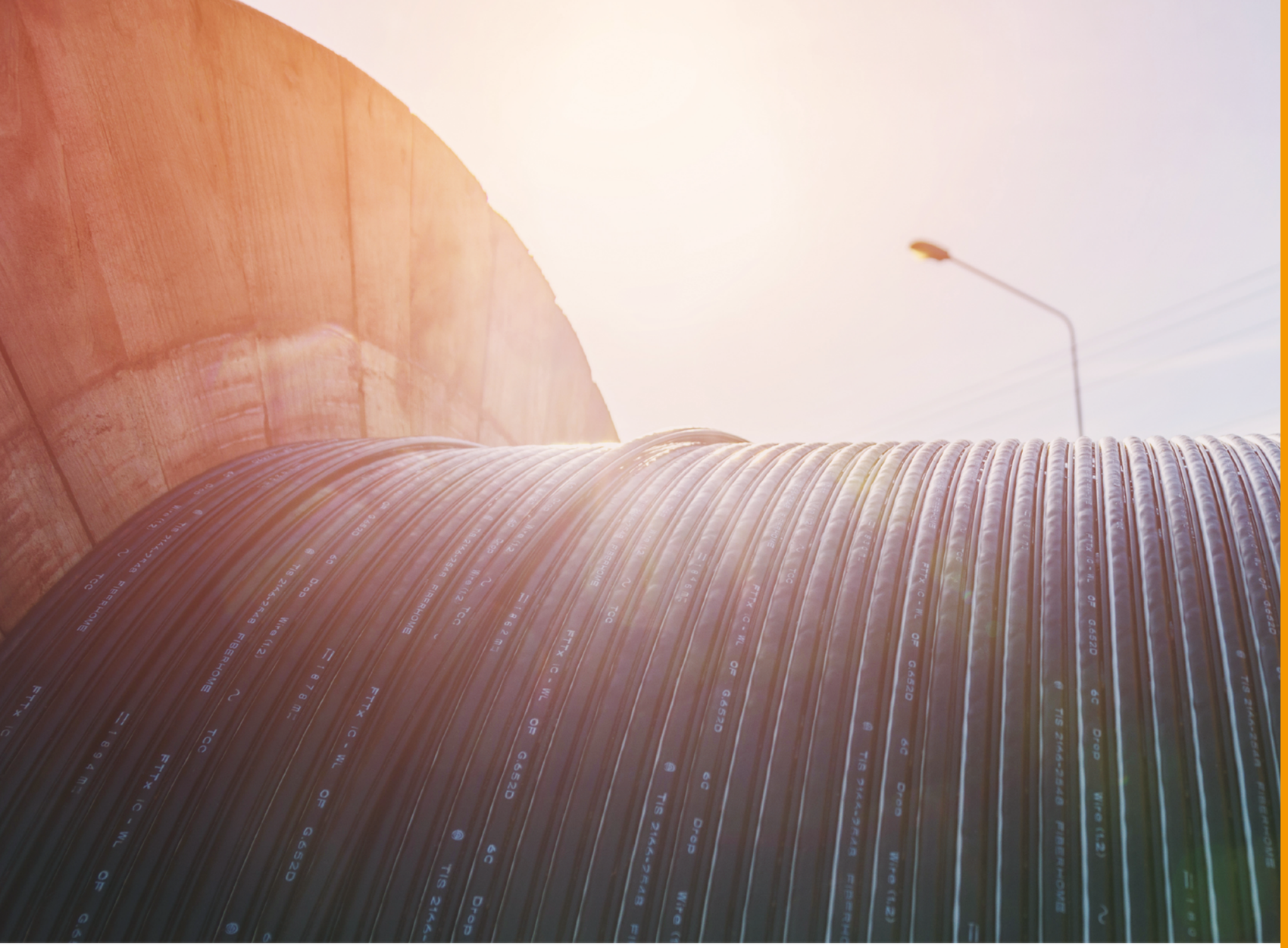
Standard	N° Holes	L	I	A	B	C	D
NEMA	4	3"	3"	1.75"	1.75"	0.63"	0.56"
		4"	4"	1.75"	1.75"	1.13"	0.56"
	6	4"	5"	1.75"	1.75"	1.13"	0.56"
		4"	6"	1.75"	1.75"	1.13"	0.56"
DIN	8	4"	8"	1.97"	1.97"	1"	0.57"



PCD (mm)	N° Holes	D
3 Inch	4	0.56"
5 Inch	8	0.7"
7 Inch		0.86"
8.86 Inch (225 mm)		0.7"
10 Inch		0.7"
10.8" (275 mm)		0.7"



For special applications and bigger cable sizes please contact your TE Connectivity representative.



Chapter 5
TE Raychem
Cable Repair & Rejacketing

Repair & Rejacketing 256

GMRS Rejacketing Sleeves

FEATURES

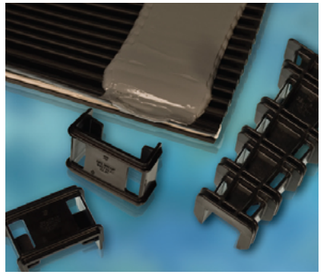
- Precoated with a thermoplastic sealant that provides an excellent seal against moisture and corrosive elements
- Seals and protects cable splices and cable jackets up to 35 kV
- Compact design and fast installation

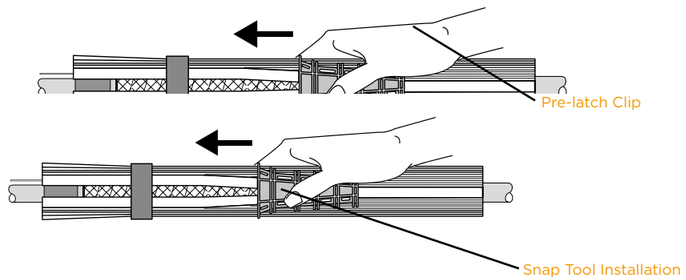
APPLICATIONS

- TE Raychem CRPS repair strip is a high-quality replacement jacket for low and high voltage flexible mining cables
- For direct buried, underground, and overhead applications

BENEFITS

- Tool-free, flexible, flame-retardant elastomeric strip for jacket repair on mining and other flexible cable
- Unlimited shelf life when stored under normal conditions





PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Sleeve Length	Cable Jacket O.D. (min)	Splice O.D. (max)	Max Jacket Opening
GMRS-75/25-650	25.5 (650)	1 (25)	2.5 (63)	17.5 (445)
GMRS-75/25-750	29.5 (750)	1 (25)	2.5 (63)	21.5 (545)
GMRS-75/25-850	33.5 (850)	1 (25)	2.5 (63)	25.5 (648)
GMRS-75/25-1050	41.25 (1050)	1 (25)	2.5 (63)	33.25 (820)
GMRS-75/25-1200	47.25 (1200)	1 (25)	2.5 (63)	39.25 (996)
GMRS-100/40-750	29.5 (750)	1.5 (38)	3.5 (89)	21.5 (545)
GMRS-100/40-850	33.5 (850)	1.5 (38)	3.5 (89)	25.5 (648)
GMRS-100/40-1050	41.25 (1050)	1.5 (38)	3.5 (89)	33.25 (820)
GMRS-100/40-1200	47.25 (1200)	1.5 (38)	3.5 (89)	39.25 (996)

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number based on the cable diameter and the jacket opening. Cable and splice body must be within specified use range.
- Standard package: 3 kits per box. Each kit contains one strip of mastic and one solvent wipe. Each box of 3 kits contains one installation snap tool and 2 pre-latch clips.
- GMRS-75/25 and GMRS-100/40 meet the test requirements of IEEE 404-2006. Request EDR # 5507.

HVS-LR Lead Sheath Repair Kits for PILC Cable

FEATURES

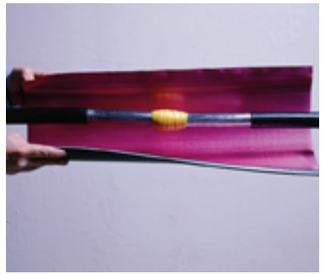
- See "Product Performance Test" chart below for featured parameters"

APPLICATIONS

- Repair lead sheath damage on paper-insulated, lead covered (PILC) cable

BENEFITS

- Combines the strength and durability of TE Raychem MBSM wraparound sleeve with an effective oil-resistant sealing mastic



Product Performance Test	
Current cycling at 110˚C conductor temperature for 90 cycles (5 hours on - 3 hours off)	PASS
Applied Pressure	15 psi
Maximum continuous conductor temperature	110˚C

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Nominal Sleeve Length	Application Use Range (min - max)
HVS-LR-75/15-600	24 (600)	0.65-2.65 (17-67)
HVS-LR-75/15-1200	48 (1200)	0.65-2.65 (17-67)
HVS-LR-160/42-600	24 (600)	1.80-5.70 (46-144)
HVS-LR-160/42-1200	48 (1200)	1.80-5.70 (46-144)
HVS-LR-200/50-600	24 (600)	2.15-7.10 (55-180)
HVS-LR-200/50-1200	48 (1200)	2.15-7.10 (55-180)

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number based on cable jacket diameter and the lead sheath diameter.
- Standard package: 3 kits/box.
- Related test report: EDR-5243.

CRSM Heat Shrink Wraparound Sleeves (2000 V)

FEATURES

- All TE Raychem CRSM sleeves are sealant-coated
- Qualified to ANSI C119.1
- RUS accepted for use as jacket restoration materials on JCN cable

APPLICATIONS

- For use on standard poly- or elastomeric insulated/jacketed cables or lead-jacketed cables, which may include aluminum or steel armoring
- Use as insulation for 1/C low-voltage power cable up to 2000 V, jacket repair up to 35 kV, or general sealing applications

BENEFITS

- TE Raychem CRSM sleeves close easily with a permanent locking system that consists of a raised rail profile and a stainless steel channel
- Unlimited shelf life when stored under normal conditions
- Excellent water seal - tested in one foot head of water
- Length may be field-cut for versatility



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Primary Electrical Repair (1000 V)					
Catalog Number	Sleeve Length	Cable and Jacket Repair Conductor Size Use Range		General Sealing Use Range (0 - 35 kV) (min - max)	Standard Pack
		AWG/kcmil	min - max		
CRSM-34/10-200	8 (200)	#8-2/0	0.25-0.60 (6-15)	0.25-1.20 (6-30)	3
CRSM-34/10-1200	48 (1219)	#8-2/0	0.25-0.60 (6-15)	0.25-1.20 (6-30)	5
CRSM-53/13-200	8 (200)	3/0-400	0.60-0.95 (15-24)	0.60-1.80 (15-46)	10
CRSM-53/13-1200	48 (1219)	3/0-400	0.60-0.95 (15-24)	0.60-1.80 (15-46)	5
CRSM-84/20-750	30 (750)	500-1000	0.95-1.40 (24-36)	0.95-2.70 (24-69)	10
CRSM-84/20-1000	40 (1000)	500-1000	0.95-1.40 (24-36)	0.95-2.70 (24-69)	10
CRSM-84/20-1200	48 (1219)	500-1000	0.95-1.40 (24-36)	0.95-2.70 (24-69)	5
CRSM-107/29-1000	40 (1000)	1000-2000	1.30-2.00 (33-51)	1.30-3.60 (33-91)	10
CRSM-107/29-1200	48 (1219)	1000-2000	1.30-2.00 (33-51)	1.30-3.60 (33-91)	5
CRSM-143/36-1200	48 (1219)			1.65-4.95 (42-126)	5
CRSM-198/55-1200	48 (1219)			2.50-6.50 (64-165)	5

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number for either primary electrical repair (2000 Volts max.) or general sealing applications. Electrical repair selections are based on typical dimensions for low voltage insulated cable. Confirm selection with cable dimensions to assure proper sizing.
- Use the “primary electrical repair” columns for electrical repair applications (when CRSM is in direct contact with the conductor).
- Use the ”General sealing use range” column for general rejacketing or sealing applications (when CRSM is not in direct contact with the conductor).
- Package does not contain connectors.
- Related Test Reports: EDR-5124, EDR-5192, EDR-5388 and EDR-5776. UV resistant test report: EDR-5361.
- CRSM-34/10 and CRSM-84/20 are available in shorter standard lengths by ordering the corresponding CRSM-CT kits. (The use ranges in the selection information table still apply).



Cut Sleeve Length = Damage Length + Total Seal Length

Damage	Total Seal Length
<3 (<76)	3 (76)
3-12 (76-305)	4 (102)
12-24 (305-610)	6 (152)
>24 (>610)	8 (203)



Chapter 6
TE Raychem Tubing & Molded Parts

Heat Shrink Tubing 262
Molded Parts 266

MWTM Medium-wall Sealant-Coated or Uncoated Tubing

FEATURES

- RUS accepted as jacket restoration of JCN cable
- 3:1 shrink ratio



APPLICATIONS

- TE Raychem Sealant-coated MWTM tubing (-S designation) is for use as insulation/jacket repair up to 600 V or for general sealing and rejacketing of polymeric- or elastomeric-insulated cables up to 35 kV
- Uncoated MWTM tubing (-U or -A/U) is for cable rejacketing only

BENEFITS

- Designed to Match Cable Performance
- Range Taking
- Conforms to Substrate
- Quick Installation
- Unlimited shelf life when stored in normal conditions
- Cut to Length at Job Site

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Use Range (min - max)	Cut-Piece Length	Min. Cont. Length Ft (m)	Standard Package Quantity		
				Box	Spool Ft (m)	Bulk Spool Ft (m)
Sealant-Coated, Cut-Length Tubing						
MWTM-10/3-1200-S	0.13-0.35 (3-9)	48 (1200)		25		
MWTM-16/5-1200-S	0.25-0.55 (6-14)	48 (1200)		25		
MWTM-25/8-1200-S	0.35-0.85 (9-22)	48 (1200)		25		
MWTM-35/12-1200-S	0.50-1.25 (13-32)	48 (1200)		25		
MWTM-50/16-1200-S	0.65-1.70 (17-43)	48 (1200)		15		
MWTM-85/25-1200-S	1.00-2.90 (25-74)	48 (1200)		5		
MWTM-115/34-1200-S	1.40-3.90 (36-99)	48 (1200)		5		
MWTM-140/42-1200-S	1.80-4.70 (46-119)	48 (1200)		5		
Uncoated, Spooled Tubing						
MWTM-10/3-A/U	0.13-0.35 (3-9)		25 (7.6)		100 (30)	
MWTM-16/5-A/U	0.25-0.55 (6-14)		25 (7.6)		100 (30)	1155 (350)
MWTM-25/8-A/U	0.35-0.85 (9-22)		25 (7.6)		100 (30)	660 (200)
MWTM-35/12-A/U	0.50-1.25 (13-32)		25 (7.6)		100 (30)	495 (150)
MWTM-50/16-A/U	0.65-1.70 (17-43)		15 (4.6)		75 (23)	330 (100)
Uncoated, Cut Length Tubing						
MWTM-85/25-1500/U	1.00-2.90 (25-74)	60 (1500)		5		
MWTM-115/34-1500/U	1.40-3.90 (36-99)	60 (1500)		5		
MWTM-140/42-1500/U	1.80-4.70 (46-119)	60 (1500)		5		

For connector information refer to the Connectors and Terminals section of this catalog.

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number. Confirm selection with application dimensions to assure proper sizing.
- MWTM is a general purpose tubing; for sealing applications use MWTM with sealant (-S) or use uncoated MWTM (-U or -A/U) in combination with S1052 sealant. Order sealants separately.
- For testing information refer to the Technical Data section of this catalog.
- UV resistant test report: EDR-5361.

WCSM Heavy-wall Sealant Coated Tubing

FEATURES

- 4:1 shrink ratio
- UL and cUL listed per 486D (file E91151) for sizes 12/3 through 70/20
- Qualified to ANSI C119.1 and rated to Western Underground guide 2.5
- RUS accepted for use as a secondary tap or splice cover, and for use as jacket restoration materials on JCN cable

APPLICATIONS

- TE Raychem WCSM tubing seals an in-line splice or terminal lug seal for non-flame retardant applications, cable re-jacketing and mechanical protection
- Jacket repair on cables up to 35 kV
- For use on standard poly or elastomeric insulated / jacketed cable or lead-jacketed cables, which may include aluminum or steel armoring
- Can be used for electrical insulation of cables up to 1000V

BENEFITS

- Designed to Match Cable Performance
- Range Taking
- Conforms to Substrate
- Smallest Installed Profile
- Quick Installation
- Unlimited Shelf Life
- Cut to Length at Job Site



c UL us LISTED

Wire Connector System for use with Underground Connectors 96J4



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	1000V Cable Nominal Use Range AWG/kcmil (min-max)	Maximum Connector O.D.	UL Conductor Use Range (min-max)	General Conductor Use Range (min-max)	Max Connector Opening	Min Seal Length per Side (A)
WCSM-12/3-150-S	#14-#6	0.29	.13-.30 (3.5-7.7)	.13-.39 (3.5-10)	2.9	1.5
WCSM-12/3-300-S	#14-#6	0.29	.13-.30 (3.5-7.7)	.13-.39 (3.5-10)	8.8	1.5
WCSM-12/3-1200-S	#14-#6	0.29	.13-.30 (3.5-7.7)	.13-.39 (3.5-10)	44.2	1.5
WCSM-16/4-150-S	#8-#2	0.41	.17-.41 (4.5-10.5)	.17-.55 (4.5-14)	1.9	2
WCSM-16/4-300-S	#8-#2	0.41	.17-.41 (4.5-10.5)	.17-.55 (4.5-14)	7.8	2
WCSM-16/4-1200-S	#8-#2	0.41	.17-.41 (4.5-10.5)	.17-.55 (4.5-14)	43.2	2
WCSM-24/6-150-S	#6-#4/0	0.69	.25 -.64 (6.5-16.5)	.25-.86 (6.5-22)	1.4	2
WCSM-24/6-225-S	#6-#4/0	0.69	.25 -.64 (6.5-16.5)	.25-.86 (6.5-22)	3.96	2
WCSM-24/6-300-S	#6-#4/0	0.69	.25 -.64 (6.5-16.5)	.25-.86 (6.5-22)	6.8	2
WCSM-24/6-1200-S	#6-#4/0	0.69	.25 -.64 (6.5-16.5)	.25-.86 (6.5-22)	38.3	2
WCSM-34/8-150-S	#2-500	1.06	.35 -.94 (9-24)	.35-1.22 (9-31)	1.4	2
WCSM-34/8-200-S	#2-500	1.06	.35 -.94 (9-24)	.35-1.22 (9-31)	3.02	2
WCSM-34/8-225-S	#2-500	1.06	.35 -.94 (9-24)	.35-1.22 (9-31)	3.96	2
WCSM-34/8-300-S	#2-500	1.06	.35 -.94 (9-24)	.35-1.22 (9-31)	6.8	2
WCSM-34/8-1200-S	#2-500	1.06	.35 -.94 (9-24)	.35-1.22 (9-31)	38.48	2
WCSM-48/12-150-S	#2/0-750	1.3	.51-1.12 (13-28.5)	.51-1.73 (13-44)	1.4	2
WCSM-48/12-225-S	#2/0-750	1.3	.51-1.12 (13-28.5)	.51-1.73 (13-44)	3.96	2
WCSM-48/12-300-S	#2/0-750	1.3	.51-1.12 (13-28.5)	.51-1.73 (13-44)	6.8	2
WCSM-48/12-1200-S	#2/0-750	1.3	.51-1.12 (13-28.5)	.51-1.73 (13-44)	38.3	2
WCSM-56/16-225-S	250-1000	1.5	.68-1.27 (17.5-32.5)	.70-1.96 (17.5-50)	3.96	2
WCSM-56/16-300-S	250-1000	1.5	.68-1.27 (17.5-32.5)	.70-1.96 (17.5-50)	6.62	2
WCSM-56/16-1200-S	250-1000	1.5	.68-1.27 (17.5-32.5)	.70-1.96 (17.5-50)	38.3	2
WCSM-70/20-300-S	500-1500	1.84	.92-1.40 (22-35.8)	.86-2.48 (22-63)	5.8	2.5
WCSM-70/20-450-S	500-1500	1.84	.92-1.40 (22-35.8)	.86-2.48 (22-63)	10.93	2.5
WCSM-70/20-600-S	500-1500	1.84	.92-1.40 (22-35.8)	.86-2.48 (22-63)	16.26	2.5
WCSM-70/20-1200-S	500-1500	1.84	.92-1.40 (22-35.8)	.86-2.48 (22-63)	37.3	2.5
WCSM-110/30-300-S	800-2000	-	-	1.29-3.93 (33-100)		2.5
WCSM-110/30-1200-S	800-2000	-	-	1.29-3.93 (33-100)		2.5
WCSM-130/35-300-S	1500-2500	-	-	1.49-4.64 (39-118)		2.5
WCSM-130/35-450-S	1500-2500	-	-	1.49-4.64 (39-118)		2.5
WCSM-130/35-1200-S	1500-2500	-	-	1.49-4.64 (39-118)		2.5

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number based on typical dimensions for low-voltage insulated cable. Confirm selection with dimensions to assure proper sizing. For general conductor use or UL conductor use.
- Package does not contain connectors or lugs. Installed connector or lug diameter must be within use range.
- TE Raychem WCSM tubing may be field-cut for shorter requirements
- Bulk packaging is available for cut lengths. Consult your TE representative for more information.
- UL listing applies to WCSM-12/3 through -70/20 only. WCSM-110/30 and -130/35 are not UL listed.
- Related test reports: EDR 5541, UL 486D test report: EDR 5139, UV resistant test report: EDR-5361

For connector information refer to the Connectors and Terminals section of this catalog.

Heat Shrink FCSM Tubing

FEATURES

- Flame retardant
- 3:1 shrink ratio
- Qualified to ANSI C119.1 also rated to IEEE 383 (Vertical Tray Flame Test) and ICEA S-19-81
- MSHA approved (No. 07-KA090013-MSHA)

APPLICATIONS

- Use sealant-coated tubing (-S) as a sealed in-line splice or terminal lug seal.
- Use uncoated tubing (-/U) for cable rejacketing only
- TE Raychem FCSM sealant-coated or uncoated tubing may be used for jacket repair on cable to 35 kV
- Used for electrical insulation of cables up to 2000V

BENEFITS

- Designed to match cable performance
- Range taking
- Conforms to substrate
- Quick installation
- Unlimited shelf life when stored in normal conditions
- Cut to length at job site



Connectors up to 6 inches:	Connectors over 6 inches:
Recommended cut length = connector length + 4 inches.	Recommended cut length = connector length + 5 inches.



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	2000 V Insulated Conductor Size (AWG/kcmil)	General Use Range (min - max)	Tube Length*	Standard Package		
				Ft. (m)/Roll	Pcs/Box	Ft. (m)/Roll
In-Line Splice Or Terminal Lug Seal (With Sealant)						
FCSM-9/3-1200-S	#14-#8	0.15-0.30 (4-8)	48 (1200)		25	
FCSM-19/6-150-S	#6-#2	0.25-0.65 (6-17)	6 (150)		50	
FCSM-19/6-1200-S	#6-#2	0.25-0.65 (6-17)	48 (1200)		25	
FCSM-28/9-225-S	#2-4/0	0.40-0.95 (10-24)	9 (225)		50	
FCSM-28/9-1200-S	#2-4/0	0.40-0.95 (10-24)	48 (1200)		25	
FCSM-38/12-300-S	1/0-350	0.50-1.30 (13-33)	12 (300)		40	
FCSM-38/12-1200-S	1/0-350	0.50-1.30 (13-33)	48 (1200)		10	
FCSM-51/16-300-S	250-500	0.70-1.75 (18-44)	12 (300)		30	
FCSM-51/16-1200-S	250-500	0.70-1.75 (18-44)	48 (1200)		10	
FCSM-68/22-1200-S	600-1000	0.95-2.30 (25-58)	48 (1200)		10	
FCSM-90/30-1200-S	800-1200	1.30-3.10 (33-79)	48 (1200)		5	
FCSM-120/40-1200-S	1500-2500	1.75-4.10 (44-104)	48 (1200)		5	
FCSM-177/63 600-S		2.75-6.05 (70-154)	24 (600)		6	
FCSM-177/63-1200-S		2.75-6.05 (70-154)	48 (1200)		5	
Cable Rejacketing (Without Sealant)						
FCSM-9/3-A/U	#14-#8	0.15-0.30 (4-8)		100 (30)		
FCSM-19/6-A/U	#6-#2	0.25-0.65 (6-17)		100 (30)		825 (250)
FCSM-28/9-A/U	#2-4/0	0.40-0.95 (10-24)		65 (20)		495 (150)
FCSM-38/12-A/U	1/0-350	0.50-1.30 (13-33)		50 (15)		395 (120)
FCSM-51/16-A/U	250-500	0.70-1.75 (18-44)		40 (12)		330 (100)
FCSM-68/22-A/U	600-1000	0.95-2.30 (25-58)		80 (24)		
FCSM-90/30-1500/U	800-1200	1.30-3.10 (33-79)	60 (1500)		5	
FCSM-120/40-1500/U	1500-2500	1.75-4.10 (44-104)	60 (1500)		5	
FCSM-177/63-1500/U		2.75-6.05 (70-154)	60 (1500)		5	

Length tolerance to +/- 2%.

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number based on typical dimensions for low-voltage insulated cable. Confirm selection with cable dimensions to assure proper sizing.
- Connectors or lugs not included. For connector information refer to the Connectors and Terminals section of this catalog.
- If sealant is needed with uncoated FCSM tubing (-/U), order S1052 separately.
- Tubing may be field-cut for shorter requirements.
- Bulk packaging is available for cut-lengths. Contact your TE representative for additional information.
- Related test reports: EDR-5133, EDR-5134, EDR-5141, EDR-5499.

LVIT Busbar Insulating Tubing (1000 V)

FEATURES

- Rated to ANSI/IEEE C37.20.1. UL recognized to Standard 224 (file E137416), 600 V-125°C-VW.1

APPLICATIONS

- When used according to the selection guidelines, TE Raychem LVIT may be used in applications up to 1 kV in accordance with ANSI/IEEE C37.20 specification. LVIT tubing may be used in applications up to 3.6 kV in accordance with IEC specifications

BENEFITS

- TE Raychem LVIT is a heat-shrinkable medium-wall, flame-retardant, low voltage tubing for insulating straight and bent busbars during original equipment assembly or in retrofit applications where access to one end of the busbar is available



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Rectangular Bar* (Bus Width)	Square Bar (Each Side)	Round Bar (Dia min - max)	LVIT Tubing Dia as Supplied & Fully Recovered (min - max)	Standard Pack
LVIT-30/10-A/U	0.50-1.0 (12-25)		0.40-1.0 (11-25)	1.18-0.39 (30-10)	200 ft.
LVIT-75/25-A/U	2.0-3.0 (50-75)	1 (25)	1.0-2.0 (25-50)	2.95-0.98 (75-25)	100 ft.
LVIT-150/50-A/U	4.0-6.0 (100-150)	2-3 (50-75)	2.0-4.0 (50-100)	5.91-1.97 (150-50)	100 ft.

**Rectangular bus thickness range is 1/4 to 5/8 inch. Test Reports: EDR-5483, EDR-5499*

ESC End Sealing Caps

FEATURES

- Qualified to ANSI C119.1 and rated to ICEA electrical withstand test for 1000 volts
- TE Raychem ESC end sealing caps are coated with a heat-activated sealant

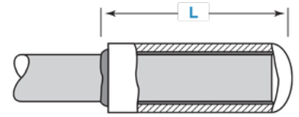
APPLICATIONS

- Use as a live end seal to 1000 volts or as an end seal to prevent moisture ingress and contamination during storage and pulling of de-energized cable

BENEFITS

- Fits easily over the cable end and shrinks in seconds forming a robust environmental seal
- Reduces cable failure and scrap
- Unlimited shelf life when stored in normal conditions





PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Primary Insulation Conductor Size (AWG/kcmil)	1000 V Use Range (min - max)	General Use Range (min - max)	Length (L)	Standard Pack* (Pcs./Box)
ESC-1/A	#12-#8	0.17-0.35 (4-9)	0.15-0.30 (4-8)	1	50
ESC-2/A	#6-3/0	0.31-0.71 (8-18)	0.30-0.70 (8-18)	2	50
ESC-3/A	4/0-750	0.65-1.25 (17-32)	0.65-1.25 (17-32)	3.5	40
ESC-4/A	750-1500	1.08-1.94 (27-49)	1.05-1.95 (27-50)	5.3	20
ESC-5/A	1500-2000	1.38-2.58 (35-66)	1.30-2.65 (33-67)	6.7	10
ESC-6/A		1.94-3.54 (49-90)	1.85-3.70 (47-94)	5.6	10
ESC-7/A		3.02-4.25 (77-108)	2.95-4.50 (75-114)	5.4	10

**Bulk options also available. Consult your TE Connectivity representative for information.*

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number based on the conductor size or use range. Confirm selection with dimensions to assure proper sizing.
- Each energized conductor requires a separate ESC sealing cap.
- Related test report: EDR-5161.

CFTS Heat Shrink Cabinet Feed-Through Seals

FEATURES

- Precoated with a thermoplastic adhesive that seals around the entering cable
- Included O-ring creates the water/air seal at the cabinet entry

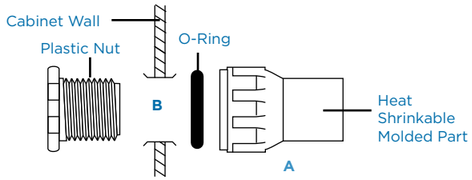
APPLICATIONS

- TE Raychem CFTS seals are heat shrinkable molded parts for moisture-sealing applications where cable enters enclosures, such as cabinets or connection boxes

BENEFITS

- Utilizes a rigid plastic that, when inserted through the cabinet wall, protects the entering cable from abrasion or cut-through





PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Cable Diameter (min - max)	Length of Molded Part (A)	Clearance (Knockout) Hole Size (B)	Standard Pack*
CFTS-1	0.20-0.40 (5-10)	2.75 (70)	1 (25)	5
CFTS-2	0.25-0.65 (6-17)	2.75 (70)	1 (25)	5
CFTS-3	0.55-1.00 (14-25)	3.75 (95)	1.375 (35)	5
CFTS-4	0.80-1.45 (20-37)	4.50 (114)	2 (51)	5
CFTS-5	1.45-2.40 (37-61)	7.00 (178)	3.5(89)	5

**Bulk options also available*

CBR Heat Shrink Cable Breakout Boot

FEATURES

- 2, 3, 4, and 6 phase/ground leg configurations
- Seals are made of tough, crosslinked polyolefin to provide mechanical protection and strain relief
- CBR seals are internally coated with heat-activated sealant

APPLICATIONS

- TE Raychem CBR products seal breakouts in multiconductor cables and conduit
- For use on standard poly- or elastomeric insulated/jacketed multiconductor cables or cables in metal or plastic conduits

BENEFITS

- Fast, easy, repeatable installation
- Unlimited shelf life when stored in normal conditions
- Sealant provides a durable, watertight seal
- Conforms tightly to conduits and cable jackets after shrinking



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Cross Section	Body Use Range (min - max)	Legs Use Range (min - max)	Standard Pack
CBR-2-1-A		0.35-1.00 (9-25)	0.15-0.55 (4-14)	3
CBR-2-2-A*		1.25-1.70 (32-43)	0.30-0.75 (8-19)	3
CBR-2-3-A		1.65-3.00 (42-76)	0.65-1.40 (17-36)	3
CBR-3-1-A		0.50-1.35 (13-34)	0.20-0.55 (5-14)	3
CBR-3-2-A*		0.85-2.20 (22-56)	0.35-0.90 (9-23)	3
CBR-3-3-A*		1.10-2.90 (28-74)	0.50-1.25 (13-32)	3
CBR-3-4-A		2.35-5.65 (60-144)	1.20-2.10 (30-53)	3
CBR-4-1-A		0.70-1.25 (18-32)	0.15-0.45 (4-11)	3
CBR-4-2-A*		1.00-2.10 (25-53)	0.35-0.90(9-23)	3
CBR-4-3-A*		1.20-3.50 (30-89)	0.55-1.40 (14-36)	3
CBR-4-4-A		2.35-6.05 (60-154)	0.90-1.90 (23-49) phase	3
			0.75-1.50 (19-39) ground	
CBR-6-1-A*		1.45-3.85 (37-98)	0.60-1.50 (15-38) phase	3
			0.30-0.75* (8-19) ground	
CBR-6-2-A*		2.65-5.30 (67-135)	0.90-2.20 (23-56) phase	3
			0.40-0.95* (10-24) ground	6

**CBR-Plugs (.64" diameter) are for blocking and sealing unused legs of breakouts. The plug will fit those items asterisked (*) above.*

Chapter 7
TE Raychem Tapes & Sealants

Tapes 270
Sealants 274

CRPS Flexible Cable Repair Tapes

FEATURES

- Precoated with a thermoplastic sealant that provides an excellent seal against moisture and corrosive elements
- MSHA approved (No. P-137-13-MSHA)

APPLICATIONS

- TE Raychem CRPS repair strip is a high-quality replacement jacket for low and high voltage flexible mining cables

BENEFITS

- Tool-free, flexible, flame-retardant elastomeric strip for jacket repair on mining and other flexible cable





Recommended coverage area includes 3 inches on either side of damaged area.

PRODUCT INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Strip Length	Strip Width	Standard Pack (Strips/Box)
CRPS-248	48 (1219)	2 (51)	20
CRPS-260	60 (1524)	2 (51)	20
CRPS-290	90 (2286)	2 (51)	15
CRPS-2120	120 (3048)	2 (51)	10

APPROXIMATE COVERAGE LENGTH

Cable Diameter	CRPS-248	CRPS-260	CRPS-290	CRPS-2120
0.50 (13)	28 (711)	36 (914)	55 (1397)	73 (1854)
0.75 (19)	18 (457)	23 (584)	37 (940)	49 (1245)
1.00 (25)	14 (356)	17 (432)	26 (660)	35 (889)
1.25 (32)	11 (279)	14 (355)	21 (533)	28 (711)
1.50 (38)	9 (229)	11 (279)	18 (457)	24 (610)
1.75 (44)	7 (178)	9 (228)	15 (381)	20 (508)
2.00 (51)		8 (203)	14 (356)	19 (483)
2.50 (64)			10 (254)	13 (330)
3.00 (76)			9 (229)	12 (305)

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number based on cable diameter and length of cable damage to be covered (see "Approximate coverage length" chart above). For larger damaged areas, multiple strips may be used to provide continuous coverage.
- To install, half-lap CRPS repair strip on cable, beginning 3 inches before damage and continuing 3 inches after damage.
- Related test report: EDR-5068.

FSTW Fast Splicing Tape Wraps

FEATURES

- Splices made with FSTW qualify to ANSI C119.1
- FSTW rubber tape is 50 mils thick, which offers strong puncture resistance from underground material and debris. FSTW is rated for use on 90°C rated cables, in underground use, in acid or caustic soils, and saltwater environments. It is UV resistant and rated for aerial exposure

APPLICATIONS

- TE Raychem FSTW is ideal for repairing cable jackets, sealing low-voltage splices, and rejacketing MV cable splices

BENEFITS

- FSTW tape provides a complete rejacketing solution in one pass as opposed to the multi-layer construction required when using traditional tape products. It's quick to install. There is no need for separate sealing mastic and tape as it combines sealant and rubber tape in one convenient product



PRODUCT INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Roll Width	Roll Length Ft. (m)	Standard Pack
FSTW-2-1-6	2 (50)	*6 (1.8)*	12

APPROXIMATE COVERAGE LENGTH

Cable Diameter	FSTW-2-1-6
0.50 (13)	42 (1000)
0.75 (19)	27 (680)
1.00 (25)	21 (530)
1.25 (32)	17 (430)
1.50 (38)	14 (355)
1.75 (44)	10 (280)
2.00 (51)	9 (230)
2.50 (63)	7 (180)
3.00 (76)	6 (150)

ADDITIONAL PRODUCT INFORMATION

- See the approximate coverage length per roll based on cable diameter.
- For repairing cable jackets, install the FSTW tape beginning 2 inches before the damage and continuing 1 inch after.
- Related test reports: EDR-5431.

MVFT Medium Voltage Fusion Tapes

FEATURES

- Exhibits non-tracking properties and possesses a continuous operating temperature up to 90°C
- A single layer of TE Raychem MVFT tape, two-thirds overlapped, will provide AC voltage withstand (flashover protection) to at least 15 kV increasing to 35 kV if a second layer is applied

APPLICATIONS

- Fits easily over a wide variety of shapes and complex connections
- Simple and effective solution to the retrofitting of busbars where existing equipment cannot be dismantled

BENEFITS

- Indoor and outdoor versatility.
- Tool free installation
- Sticks to itself and insulation material - not metal or porcelain allowing for easy removal
- Quick and easy to install



PRODUCT INFORMATION

Catalog Number	Color	Width In (mm)	Length Ft. (m)	Standard Pack
MVFT-G-2-12(B4)	Gray	2 (50)	*36 (11)*	4 Rolls

Notes:
See HVBT for Heat applied alternative
Related Test Report: EDR-5465

LVBT Low Voltage Busbar Insulating Heat Shrink Tapes

FEATURES

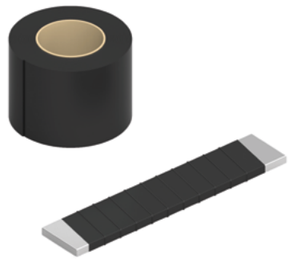
- Rated to ANSI/IEEE C37.20

APPLICATIONS

- TE Raychem LVBT is an adhesive-coated, low-voltage heat-shrinkable tape. One wrap insulates straight and bent bars in retrofit applications where tubing cannot be used. In addition, LVBT easily insulates unusual connections and geometries in the factory or field

BENEFITS

- Adhesive layer fuses the tape layers but does not stick to bus or hardware, providing tough insulation up to 1 kV in accordance with ANSI C37.20 and up to 3.6 kV in accordance with IEC specifications



LVBT TAPE DIMENSIONS

Catalog Number	Roll width in (mm)	Roll Length Ft. (m)
LVBT-1-R	1 (25)	*25 (7.5)*
LVBT-2-R	2 (50)	*25 (7.5)*
LVBT-4-R	4 (100)	*25 (7.5)*

PRODUCT SELECTION INFORMATION: DIMENSIONS IN FEET(M)

Bus Width	Catalog Number	Bus Length Insulated per Roll	Rolls/Standard Pack
Rectangular Busbar*			
1 (25)	**LVBT-1-R**	*3.8 (1.2)*	8
2 (50)	**LVBT-2-R**	*4.8 (1.5)*	4
3 (75)	**LVBT-2-R**	*3.5 (1.1)*	4
4 (100)	**LVBT-2-R**	*2.7 (0.8)*	4
6 (150)	**LVBT-2-R**	*1.9 (0.6)*	4
8 (200)	**LVBT-4-R**	*2.9 (0.9)*	4
**Maximum thickness: 5/8 (15)*			
Square Busbar			
1 (25)	**LVBT-2-R**	*6.25 (2.0)*	4
2 (50)	**LVBT-2-R**	*3.1 (1.0)*	4
3 (75)	**LVBT-2-R**	*2.0 (0.6)*	4
4 (100)	**LVBT-4-R**	*3.1 (1.0)*	2
6 (150)	**LVBT-4-R**	*2.0 (0.6)*	2
Round Busbar			
0.5 (12)	**LVBT-1-R**	*8.0 (2.6)*	8
1.0 (25)	**LVBT-2-R**	*8.0 (2.6)*	4
2.0 (50)	**LVBT-2-R**	*4.0 (1.3)*	4
3.0 (75)	**LVBT-2-R**	*2.6 (0.9)*	4
4.0 (100)	**LVBT-4-R**	*4.0 (1.3)*	2

ADDITIONAL PRODUCT INFORMATION

- LVBT-1-R is best for shorter lengths. LVBT-2-R is the most versatile width for general purpose use. LVBT-4-R is useful for long lengths and larger bus sizes.
- If sealing is needed, order the S1052-6-150 sealant strips.
- Related Test Reports: EDR-5490 and EDR-5499

HVBT High Voltage Busbar Insulating Tapes

FEATURES

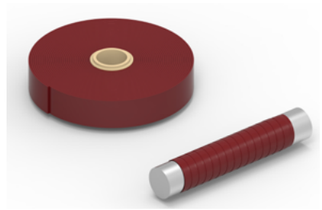
- Used in applications up to 15 kV in accordance with ANSI/IEEE specifications
- Up to 36 kV in accordance with IEC specifications
- Rated to ANSI/IEEE C37.20-1987.

APPLICATIONS

- TE Raychem HVBT tape is an adhesive coated, high-voltage, heat-shrinkable, general-purpose tape for insulating straight and bent bars in retrofit applications where tubing cannot be used. In addition, HVBT easily insulates unusual connections and geometries in the factory or field

BENEFITS

- HVBT tape is also ideal for protection against incidental/accidental bridging caused by birds and animals.
- Unlimited shelf life when stored in normal conditions



HVBT TAPE DIMENSIONS

Catalog Number	Roll width in (mm)	Roll Length Ft (m)
HVBT-1-R-01 (B8)	1 (25)	*25 (7.5)*
HVBT-2-R-01 (B4)	2 (50)	*25 (7.5)*
HVBT-4-R-01 (B2) 4"	4 (100)	*25 (7.5)*

PRODUCT SELECTION INFORMATION: DIMENSIONS IN FEET(M)

Bus Width	Catalog Number	Bus Length Insulated per Roll	Rolls/Standard Pack
Rectangular Busbar*			
1 (25)	HVBT-1-R-01 (B8)	*2.5 (0.7)*	8
2 (50)	HVBT-2-R-01 (B4)	*3.3 (1.0)*	4
3 (75)	HVBT-2-R-01 (B4)	*2.2 (0.6)*	4
4 (100)	HVBT-2-R-01 (B4)	*1.6 (0.5)*	4
6 (150)	HVBT-2-R-01 (B4)	*1.0 (0.3)*	4
8 (200)	HVBT-4-R-01 (B2)	*1.6 (0.5)*	4
Square Busbar			
1 x 1 (25)	HVBT-2-R-01 (B4)	*4.0 (1.2)*	4
2 x 2 (50)	HVBT-2-R-01 (B4)	*2.0 (0.6)*	4
3 x 3 (75)	HVBT-2-R-01 (B4)	*1.3 (0.4)*	4
4 x 4 (100)	HVBT-4-R-01 (B2)	*2.0 (0.6)*	2
6 x 6 (150)	HVBT-4-R-01 (B2)	*1.3 (0.4)*	2
Round Busbar			
0.5 (12)	HVBT-1-R-01 (B8)	*5.0 (1.5)*	8
1.0 (25)	HVBT-2-R-01 (B4)	*5.0 (1.5)*	4
2.0 (50)	HVBT-2-R-01 (B4)	*2.5 (0.7)*	4
3.0 (75)	HVBT-2-R-01 (B4)	*1.5 (0.4)*	4
4.0 (100)	HVBT-4-R-01 (B2)	*2.5 (0.7)*	2

**Maximum thickness: 5/8 (15)*

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number for the application. Confirm selection with the following recommendations and HVBT tape dimensions: HVBT-1-R is best for short lengths and small bus sizes, HVBT-2-R is the most versatile width for general purpose use, HVBT-4-R is useful for long lengths and larger bus sizes.
- To environmentally seal the bus, order order S1251-50-300-1 or S1251-25-300-4 sealant strips separately.
- Recommended application is to wrap the tape around the busbar using a two-thirds overlap.
- Bolted connections require two layers of tape.
- Standard package: HVBT-1-R: 8 rolls/box, HVBT-2-R: 4 rolls/box, HVBT-4-R: 2 rolls/box
- Continuous operating temperature: 90°C
- Related test reports: UVR-8023, EDR-5154 and EDR-5466.

Hot-Melt and Cold-Applied Sealants (Mastic)

FEATURES

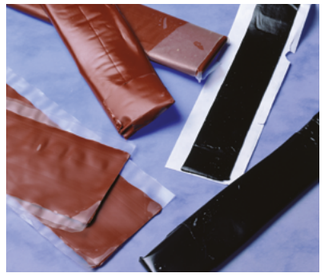
- The hot-melt sealants flow when heated and set when cooled to provide a superior watertight seal. The cold-applied sealants bond to surfaces when placed under pressure to create a water-tight seal

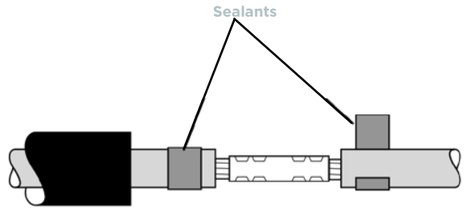
APPLICATIONS

- Used for sealing the ends of uncoated tubing or for low-voltage applications requiring void-filling

BENEFITS

- Use sealants with uncoated tubing and molded parts for sealing applications or as an adhesion enhancement for specific applications





PRODUCT SELECTION INFORMATION

Sealant Type	Description	Use with These Products	Application
S1052	General purpose low-voltage sealant	WCSM-A/U (uncoated), MWTM-A/U (uncoated), FCSM-A/U (uncoated), LVBT, LVIT	Heat shrink
S1085	General purpose high-voltage sealant	HVS (high-voltage splices), HVT (high-voltage terminations)MCK-5	Heat shrink Cold applied
S1189	High-temperature, low-voltage sealant	MCK, HVS, HVT	Heat shrink
S1251	High-voltage Raysulate electrical insulator sealant	BBIT, BPTM, HVBT, HVIS, HVS, JGK	Heat shrink
S1171	Low-voltage mining sealant	LV-MSK, HV-MSK	Heat shrink
S1174	Low-voltage mining sealant	MCK	Heat shrink
S1278	Low-voltage sealant	RDSS, CATS, CSJ, TFT, ELB	Cold applied
GelWrap Pad	Low-voltage PowerGel sealing gel	GelWrap, GelWrap-RS closure	Cold applied

Catalog Number	Color	(Width x Length x Thickness)	Standard Pack
S1052-3-3000-(B5)	Black	Roll: 1.5 x 120 x .12	5 rolls/box
S1085-3-380 (B15)	Black		
S1171-4-300 (B100)	Black	Strip: 2 x 12 x .10	100 strips/box
S1174-2-300(B25)	Black	Strip: .5 x 12 x 09	25 strips/box
S1174-4-460	Black	Strip: 1 x 18 x .19	15 strips/box
S1251-25-300-4(B25)	Red	Strip: 1 x 12 x .150	25 strips/box
S1251-50-300-1(B25)	Red	Strip: 2 x 12 x .045	25 strips/box
S1278-3x61x7620(S1)	Gray	Roll: 2.4 x 300 x .12	1 roll/box
Gelwrap-Pad-2X8(B6)	Gray	Strip: 2 x 8 x .18	6 strips/box
S1189-3-600 (B25)	Yellow		

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number based on the application information in columns two and three of the above table.
- Use the information in the table above for ordering.
- Sealants are supplied in bulk form with protective release paper.

Chapter 8
TE Raychem Wildlife & Asset Protection

Busbar Insulation & Wildlife Protection 278
Substation 283
Overhead 295
Contamination/Flashover Prevention 302

HVBT High Voltage Busbar Insulating Tapes

FEATURES

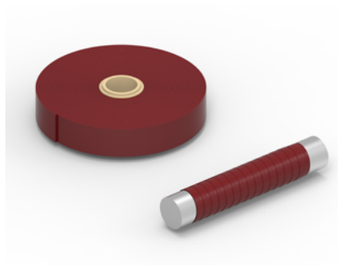
- Superior UV resistance
- Insulates up to 35 kV when two layers are applied at 2/3 overlap
- Compatible with all other products in the TE Raychem medium voltage insulation enhancement system
- Easy to apply using readily available equipment
- Suitable for both indoor and outdoor use
- Excellent anti-tracking properties
- Continuous operating temperature up to 90˚C
- Extremely versatile and flexible at temperatures as low as -40˚C, the 30% shrink ratio enables coverage of almost any shape
- Good thermal emissivity and contact with busbars means no derating is required
- Can be stored indefinitely at temperatures up to 50˚C without loss of performance

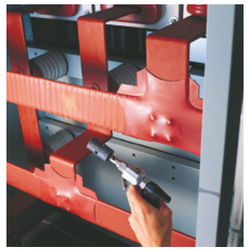
APPLICATIONS

- TE Raychem HVBT tape offers a simple and effective solution to the problems of retrofit insulation of busbars, particularly where existing equipment cannot be dismantled
- Can be used for indoor and outdoor applications and is easily installed over a wide variety of shapes, including complex connections
- May be used in applications 15 kV in accordance with ANSI/IEEE specifications and up to 36 kV in accordance with IEC Specifications

BENEFITS

- Protects against incidental/ accidental bridging caused by birds and animals
- The HVBT adhesive layer fuses the tape layers, but does not stick to the bus or hardware, providing environmental sealing while allowing fast, easy removal
- Manufactured from non-halogen based materials, reducing the toxic and corrosive effects in the event of fire





RECTANGULAR BUSBAR

Bus Width* in (mm)	Recommended Product	Bus Length Insulated per Roll feet (meters)
1 (25)	HVBT-1-R-01 (B8)	*2.5 (0.7)*
2 (50)	HVBT-2-R-01 (B4)	*3.3 (1.0)*
3 (75)	HVBT-2-R-01 (B4)	*2.2 (0.6)*
4 (100)	HVBT-2-R-01 (B4)	*1.6 (0.5)*
6 (150)	HVBT-2-R-01 (B4)	*1.0 (0.3)*
8 (200)	HVBT-4-R-01 (B2)	*1.6 (0.5)*

**Calculated with maximum thickness: 5/8 inch (15mm)*

SQUARE BUSBAR

Dimensions of bar inch (mm)	Recommended Product	Bus Length Insulated per Roll feet (m)
1 x 1 (25)	HVBT-2-R-01 (B4)	*4.0 (1.2)*
2 x 2 (50)	HVBT-2-R-01 (B4)	*2.0 (0.6)*
3 x 3 (75)	HVBT-2-R-01 (B4)	*1.3 (0.4)*
4 x 4 (100)	HVBT-4-R-01 (B2)	*2.0 (0.6)*
6 x 6 (150)	HVBT-4-R-01 (B2)	*1.3 (0.4)*

ROUND BUSBAR

Busbar Diameter inch (mm)	Recommended Product	Bus Length Insulated per Roll feet (m)
0.5 (12)	HVBT-1-R-01 (B8)	*5.0 (1.5)*
1.0 (25)	HVBT-2-R-01 (B4)	*5.0 (1.5)*
2.0 (50)	HVBT-2-R-01 (B4)	*2.5 (0.7)*
3.0 (75)	HVBT-2-R-01 (B4)	*1.5 (0.4)*
4.0 (100)	HVBT-4-R-01 (B2)	*2.5 (0.7)*

PRODUCT SELECTION INFORMATION:

Catalog Number	Roll Width | Roll Length	Standard Package
HVBT-1-R-01 (B8)	1 inch *25 feet*	8 rolls/box
HVBT-2-R-01 (B4)	2 inches *25 feet*	4 rolls/box
HVBT-4-R-01 (B2)	4 inches *25 feet*	2 rolls/box

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number for the application. Confirm selection with the following recommendations and TE's HVBT tape dimensions:
  - HVBT-1-R is best for short lengths and small bus sizes.
  - HVBT-2-R is the most versatile width for general purpose use.
  - HVBT-4-R is useful for long lengths and larger bus sizes.
- To environmentally seal the bus, order S1251-50-300-1 or S1251-25-300-4 sealant strips separately.
- Recommended application is to wrap the tape around the busbar using a two-thirds overlap.
- Bolted connections require two layers of tape.
- Continuous operating temperature: 90 degrees Celsius.
- Related Test reports: UVR-8023, EDR-5154, and EDR-5466

BBIT / BPTM Busbar Insulating Tubing

FEATURES

- TE Raychem BBIT/BPTM tubes are extremely flexible which allows for easy positioning
- Have a high expansion ratio, so each size of tubing fits a range of busbar sizes
- Quick installation with the use of a gas torch or oven

APPLICATIONS

- Ideal for protection against accidental bridging caused by birds and other animals
- Can be used on straight or bent bars where clearance reduction or insulation are required
- Ideal for original equipment assembly, and for retrofit applications where access to one end is available

BENEFITS

- Easy installation
- Flexible
- Fits a range of busbar sizes
- Versatile tubing covering a range from 5-35 kV for electrical insulation



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Rectangular Bar (bus width)	Square Bar (each side)	Round Bar (diameter min-max)	Diameter as Supplied and Fully Recovered
BBIT-25/10-A/U (B65)	0.5 (12)		0.50-0.70 (12-18)	0.98-0.39 (25-10)
BBIT-40/16-A/U (B60)	1.0 (25)		0.70-1.10 (18-28)	1.57-0.63 (40-16)
BBIT-65/25-A/U (B50)	2.0 (50)	1.0 (25)	1.10-1.55 (28-40)	2.56-0.98 (65-25)
BBIT-100/40-A/U (B50)	3.0 (75)	2.0 (50)	1.75-2.45 (44-62)	3.94-1.57 (100-40)
BBIT-150/60-A/U (B50)	4.0 (100)	3.0 (75)	2.60-3.60 (66-91)	5.91-2.36 (150-60)
BBIT-175/80-A/U (B50)	5.0-6.0 (125-150)	4.0 (100)	3.45-4.75 (88-121)	6.89-3.15 (175-80)

Catalog Number*	Rectangular Bar		Square Bar		Round Bar		Diameter as Supplied and Fully Recovered
	5 - 15 kV	25 kV	5 - 15 kV	25 kV	5 - 15 kV	25 kV	
BPTM-15/6-A/U(B50)	N/A	N/A	N/A	N/A	0.26-0.52 (7-13)	0.26-0.52 (7-8)	0.59-0.24 (15-6)
BPTM-30/12-A/U(B50)	0.25-0.5 (12)		0.5 (12)	0.5 (12)	0.53-0.90 (14-23)	0.53-0.65 (14-16)	1.18-0.47 (30-12)
BPTM-50/20-A/U(B50)	1.0 (25)	1.0 (25)	1.0 (25)	N/A	0.90-1.35 (23-33)	0.90-1.10 (23-28)	1.97-0.79 (50-20)
BPTM-75/30-A/U(B50)	2.0 (50)	2.0 (50)	1.5 (38)	1.0 (25)	1.30-2.00 (33-51)	1.30-1.65 (33-42)	2.95-1.18 (75-30)
BPTM-100/40-A/U(B50)	3.0 (75)	3.0 (75)	2.0 (50)	1.5 (38)	1.75-2.75 (44-70)	1.75-2.30 (44-58)	3.94-1.57 (100-40)
BPTM-120/50-A/U(B50)	4.0-5.0 (100-127)	4.0 (100)	3.0 (75)	2.0 (50)	2.15-4.00 (55-102)	2.15-3.20 (55-81)	4.72-1.97 (120-50)
BPTM-175/70-A/U(B50)	6.0-7.0 (150-178)	5.0-6.0 (127-150)	4.0 (100)	3.0 (75)	3.20-5.50 (81-140)	3.20-4.40 (81-112)	6.88-2.75 (175-70)
BPTM-205/110-A/U(B50)	8.0 (200)	8.0 (200)	5.0 (127)	4.0 (100)	4.75-7.00 (120-178)	4.75-6.80 (120-174)	8.07-4.33 (205-110)
BPTM-235/130-A/U-C(40)	12 (300)	10 (250)	6.0 (150)	6.0 (150)	5.70-8.45 (145-215)	5.70-8.07 (145-205)	9.25-5.12 (235-130)

** (Bxx) denotes roll of uncoated tubing per box in feet. BPTM-235/130 comes in a box of 132 feet*

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number. Confirm selection with bus dimensions.
- Rectangular bus thickness range is 1/4 to 5/8 inch.
- Bolted connections require two layers of tubing or a fiber bolt pad. (BP-46).
- To environmentally seal the bus at each end of the BBIT tubing, order S1251-50-300-1 or S1251-25-300-4 sealant strip separately.
- Standard package:
  BBIT-25/10-A/U: 65 feet/box
  BBIT-40/16-A/U: 60 feet/box
  BBIT-65/25-A/U: 50 feet/box
  BBIT-100/40-A/U: 50 feet/box
  BBIT-150/60-A/U: 50 feet/box
  BBIT-175/80-A/U: 50 feet/box
  BPTM-235/130-A/U: 132 feet/box
  All other BPTM sizes: 50 feet/box
  BBIT and BPTM are also available in bulk spooled quantities.
- Related test reports:
  BBIT-UVR-8136, UVR-8137, BPTM-UVR-8019
- Minimum continuous length is 15 feet (4.5 meters).

HVIS High Voltage Busbar Insulating Sheet

FEATURES

- TE Raychem HVIS adhesive coated material provides insulation to Busbar/ connections and does not adhere to metal
- Compatible with other Wildlife and Asset Protection products or alone to prevent accidental bridging from birds and animals
- 5-15 kV

APPLICATIONS

- Busbar tees
- Busbar elbows
- Other complex Busbar shapes

BENEFITS

- Easy to install high performance insulation
- Product is UV resistant
- Made of anti-tracking material



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Width	Length	Packaging
HVIS-05-(B3) NS	26 (660)	20 (508)	Sheet
HVIS-10-(B1) NS	26 (660)	33ft (10m)	Roll

SHEET (HVIS) ACCESSORIES

Catalog Number	Description	Standard Pack
HVIS-Flat (B12)	36" flat bracket for clamping HVIS on straight runs	12 each
HVIS-Angle (B12)	Angle brackets for clamping HVIS at 90 degree angles	12 each
HVIS-Clamp (B25)	Spring clamps to hold brackets on HVIS	25 each

Bus Width	Cut Size Needed	Number of Installations Per HVIS-05 Sheet	Number of Installations per HVIS-10 Roll
T Connection			
1 (25)	11 x 9 (275 x 225)	4	88
2 (50)	13 x 10 (325 x 250)	4	78
3 (75)	16 x 11 (400 x 275)	2	48
4 (100)	18 x 13 (450 x 325)	2	44
6 (150)	22 x 17 (550 x 425)	1	23
Elbow Connection			
1 (25)	11 x 7 (275 x 175)	4	112
2 (50)	13 x 9 (325 x 225)	4	88
3 (75)	15 x 10 (375 x 250)	2	52
4 (100)	18 x 11 (450 x 275)	2	44
6 (150)	22 x 13 (550 x 325)	1	36

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number. Confirm selection with dimensions.
- Busbars are assumed to be insulated to within one inch of the joint. Cut size should extend a minimum of four inches onto each leg of the joint before shrinking.
- The above table should be used as a guide only; experiment to confirm final cut size. Table is based on 5/8-inch bus thickness period.
- To environmentally seal each leg of the bus, order S1251-50-300-1 or S1251-25-300-4 sealant strips separately.
- HVIS may be rated for applications up to 35kV when two layers are applied.
- Standard package:
  HVIS-05: 3 sheets/box
  HVIS-10: 1 roll/box
- Related test report: EDR-5175, EDR-5385

RRBB Interphase Insulating Barrier Board

FEATURES

- Non-structural, interphase barrier
- Made from homogeneous polymer
- Easily fabricated into a shape
- Innovative cross-linking resistant material can be wiped clean after power-arc events resulting in no visible effects or surface damage
- Machining properties allow it to be cut and drilled for mounting without requiring special safety equipment
- Extremely durable

APPLICATIONS

- TE Raychem RRBB protects switchgear cabinets against interphase flashovers
- UV Resistance makes it suitable for outdoor applications

BENEFITS

- Excellent track resistance, especially following a power arc
- Produces less nuisance dust than other boards
- Produces less tooling wear than other boards
- Extended life due to the excellent tracking resistant properties
- High durability makes boards resistant to damage from solvents, mechanical impact and general wear and tear



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Width	Length	Thickness
RRBB-6-1.25Mx1.25M-(B3)	48 (1220)	48 (1220)	0.250 (6)
RRBB-2440/1220-6.2-BP	48 (1220)	96 (2440)	0.250 (6)

ADDITIONAL PRODUCT INFORMATION

Related Test Report: EDR-5311

BISG / BISG-24 Bus Isolation Squirrel Guard

FEATURES

- High voltage outdoor materials are used in the design
- Polymer is rugged, track resistant, UV-Stable, and ensures long-term performance regardless of environmental conditions
- Comes in red or gray colors
- Sizes range from two to five inches from the factory with "grill" design allowing for easy field modifications

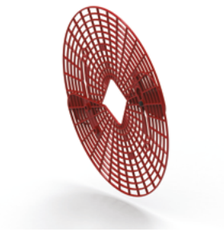
APPLICATIONS

- TE Raychem BISG is on installed substation equipment to protect animal caused outages

BENEFITS

- The Isolation guard has reliably prevented animal-caused outages in electrical substation equipment for years
- Allow excellent visibility of switch blades and other components while providing resistance to power arcs and high winds
- Designed to allow one person to quickly and easily install with hot-sticks on vertical or horizontal mounted insulators

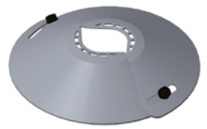
BISG-60/115-02



BISG-24



BISG-100/400



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Insulator Core Diameter Range	Overall Product Diameter	Color	Installation
BISG-60/115-02(S10)	2.4-4.5 (60-115)	24	Red	De-energized
BISG-60/115-03-HOT (B10)	2.4-4.5 (60-115)	24	Red	Two stick (energized)
BISG-G-60/115-02(S10)	2.4-4.5 (60-115)	24	Gray	De-energized
BISG-G-60/115-03-HOT-B10	2.4-4.5 (60-115)	24	Gray	Two stick (energized)
BISG-24-01 (B10)	2.5-5.0 (62-125)	24	Red	One stick (energized)
BISG-G-24-01 (B10)	2.5-5.0 (62-125)	24	Gray	One stick (energized)
BISG-100/400 (B3)	1.50-4.50 (38-115)	16	Red	De-energized
BISG-G-100/400 (B3)	1.50-4.50 (38-115)	16	Gray	De-energized
BISG-100/600 (B3)	.50 - 4.50 (38 - 115)	24	Red	De-energized
BISG-G-100/600 (B3)	.50 - 4.50 (38 - 115)	24	Gray	De-energized

ADDITIONAL PRODUCT INFORMATION

- Standard package: 10 BISG-60/115-02 | 10 BISG-24-01 assemblies per box. (one BISG will install on one insulator)
- Related test report: EDR-5310, EDR-5517-Bus Insulator Squirrel Guard (BISG-24-01)

BCAC Bushing Connection Animal Covers

FEATURES

- Specifically designed to prevent animal caused outages on bushing ranging from 15 to 35 kV
- Fast and easy installation
- Fit wide range of bushings and skirt diameters

APPLICATIONS

- TE Raychem BCAC protects substation equipment from animal caused outages

BENEFITS

- Preventing animal-caused outages for years
- Superior polymer provides long-term performance in all environments (material is rugged, non-tracking, and UV-Resistant)



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Max Shed Diameter	Cover Height	Color
BCAC-5D/8-01(B12)	4.8 (122)	8.0 (203)	Red
BCAC-7D/10-01(B6)	6.8 (172)	10.5 (266)	Red
BCAC-8D/14-01(B6)	8.0 (203)	14.0 (355)	Red
BCAC-G-5D/8-01(B12)	4.8 (122)	8.0 (203)	Gray
BCAC-G-7D/10-01(B6)	6.8 (172)	10.5 (266)	Gray
BCAC-G-8D/14-01(B6)	8.0 (203)	14.0 (355)	Gray
BCAC-BYPASS-01(B1)*	6.8 (172)	10.6 (266)	Red
BCAC-BYPASS-02(B1)*	8.0 (203)	14.0 (355)	Red

** The BCAC covers are also kitted for voltage regulator applications. The kit includes two bushing covers and a center arrester cover.*



ADDITIONAL PRODUCT INFORMATION

- Standard package: 12 or 6 units per box, depending on size of cover (One BCAC will install on one insulator)
- Related Test Reports: EDR-5339, EDR-5407, UVR-8209

BCAC-IC Bushing Connection Inspection Substation Covers

FEATURES

- Visual inspection of connection and oil levels
- Conductors and leads exit easily through cover
- Robust latching and hinging mechanisms
- Reliable protection with enhanced features
- Good for coverage on equipment up to 35 kV

APPLICATIONS

- TE Raychem BCAC-IC protects substation equipment from animal caused outages



BENEFITS

- BCAC-IC Insulating covers prevent outages from all types of animals for years
- Fast and easy installation
- Top and side exits for conductor - no need to trim, therefore saving time

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Standard Pack	Color	Insulator Core Range	Insulator Shed Range	Cover Size	
					Diameter	Height
BCAC-IC						
BCAC-IC-5D/6 (B6)	6	Red	1.5-3.5 (38-89)	2.5-5.0 (63-127)	5.00 (127)	6 (152)
BCAC-IC-7D/12 (B6)	6	Red	3.0-4.87 (76-124)	3.75-7.00 (95-178)	7.00 (178)	12 (305)
BCAC-IC-8D/18 (B6)	6	Red	3.5-6.25 (90-160)	4.00-8.00 (100-200)	8.00 (200)	18 (455)
BCAC-IC-10.5D/20 (B6)	6	Red	3.5-8.5 (90-215)	6-10.5 (150-267)	10.75 (273)	20 (508)
BCAC-G-IC-5D/6 (B6)	6	Gray	1.5-3.5 (38-89)	2.5-5.0 (63-127)	5.00 (127)	6 (152)
BCAC-G-IC-7D/12 (B6)	6	Gray	3.0-4.87 (76 24)	3.75-7.00 (95-178)	7.00 (178)	12 (305)
BCAC-G-IC-8D/18 (B6)	6	Gray	3.5-6.25 (90-160)	4.00-8.00 (100-200)	8.00 (200)	18 (455)
BCAC-G-IC-10.5D/20 (B6)	6	Gray	3.5-8.5 (90-215)	6-10.5 (150-267)	10.75 (273)	20 (508)

Catalog Number	Standard Pack	Color	Insulator Core Range	Insulator Shed Range	Cover Height
BCAC-IC2-13D/14(B3)	3	Red	5.5-9.25 (140-235)	10.0-13.0 (255-330)	14 (355)
BCAC-G-IC2-13D/14(B3)	3	Gray	5.5-9.25 (140-235)	10.0-13.0 (255-330)	14 (355)
BCAC-IC2-10.5D/12(B3)	3	Red	3-8.5 (76-216)	7.5-10.5 (190-267)	12 (305)
BCAC-G-IC2-10.5D/12(B3)	3	Gray	3-8.5 (76-216)	7.5-10.5 (190-267)	12 (305)
BCAC-IC2-8.5D/14(B3)	3	Red	2.5-6.5 (64-216)	5.5-8.5 (140-216)	14 (355)
BCAC-G-IC2-8.5D/14(B3)	3	Gray	2.5-6.5 (64-216)	5.5-8.5 (140-216)	14 (355)
BCAC-IC2-5D/14/1.5(B6)	6	Red	1.5-3.7 (38-95)	3.0-5.0 (76-127)	14 (355)
BCAC-G-IC2-5D/14/1.5(B6)	6	Gray	1.5-3.7 (38-95)	3.0-5.0 (76-127)	43 (355)
BCAC-IC2-5D/14/2(B6)	6	Red	1.5-3.7 (38-95)	3.0-5.0 (76-127)	14 (355)
BCAC-G-IC2-5D/14/2(B6)	6	Gray	1.5-3.7 (38-95)	3.0-5.0 (76-127)	15 (355)
BCAC-IC2-5D/6 (B6)	6	Red		2.5 - 5.0 (63 - 127)	
BCAC-G-IC2-5D/6 (B6)	6	Gray		2.5 - 5.0 (63 - 127)	

Catalog Number	Max Shed Diameter	Cover Height	Color
BCAC-IC-BYPASS			
BCAC-IC-BYPASS-01 (B1)	7.0 (178)	12.00 (305)	Red
BCAC-G-IC-BYPASS-01 (B1)	7.0 (178)	12.00 (305)	Gray

The BCAC covers are also kitted for voltage regulator applications. The kit includes two bushing covers and a center arrester cover.

ADDITIONAL PRODUCT INFORMATION

- Related test reports: EDR-5514, UVR-8209

BCIC Bushing Connection Insulating Covers

FEATURES

- Specifically designed to protect energized equipment conductors or busbars from flashovers from contact with birds, squirrels and other wildlife
- Variety of shapes and sizes protect a wide range of applications
- Excellent UV protection and track resistance

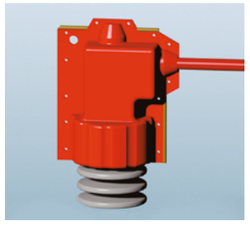
APPLICATIONS

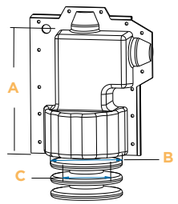
- Substations
- Circuit breaker bushings
- Standoff insulators
- Capacitors
- Transformer bushings
- Voltage regulators
- Potential transformers

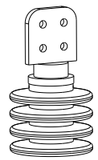
BENEFITS

- Long life span
- Installation can be done quickly in field by trimming entry and exit holes to required dimensions
- Can be re-entered for other maintenance needs and then reused, lowering overall lifetime costs

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

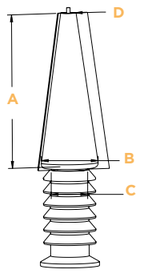


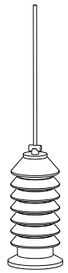




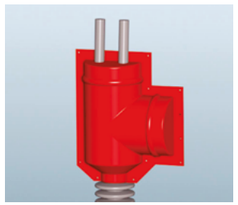
Catalog Number	Height (A)	Base Diameter (B)	Other Measurements (C)	Additional Notes
BCIC-4411 (B3)	10.6 (268)	6.0 (152)	4.0 (102) inner diam.	4 (100) Bottom port opening

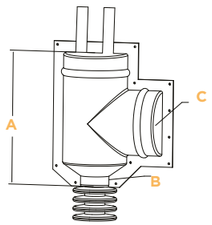


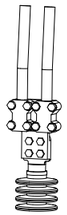




Catalog Number	Height (A)	Base Diameter (B)	Other Measurements (C)	Additional Notes
BCIC-SG-101-H2 (B3)	12 (305)	4.5 (114)	3 (72) inner diam.	(D) 1.125 (29) top diam. Bottom and top opening

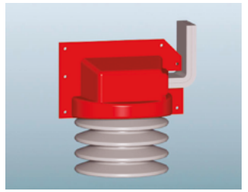


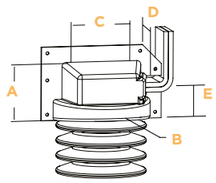


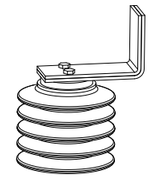


Catalog Number	Height (A)	Base Diameter (B)	Other Measurements (C)	Additional Notes
BCIC-9D/19-3 (B3)	18.5 (470)	4 (102)	9 (229) side diam.	

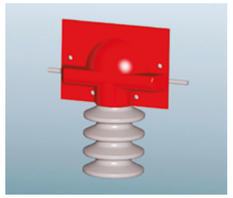
PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

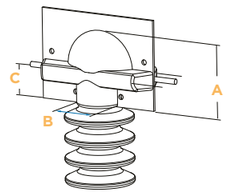


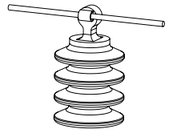




Catalog Number	Height (A)	Base Diameter (B)	Other Measurements (C)	Additional Notes
BCIC-8D/6-3 (B3)	4.7 (119.4)	8.0 (203.2)	5.00 (127) wide	(D) 5.40 (137.2) long, opening (E) 2.75 (69.9) from bottom

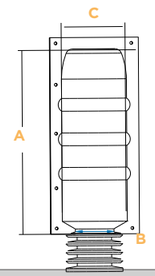


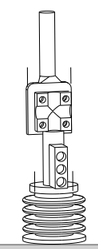




Catalog Number	Height (A)	Base Diameter (B)	Other Measurements (C)	Additional Notes
BCIC-3D/6-3 (B3)	3.5 (90.2)	2 (51)	1.5 (38) L. side diam.	2.0 (51) R. side opening 6.0 (152) width

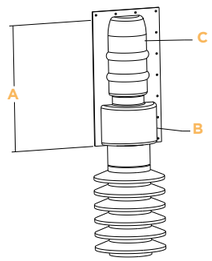


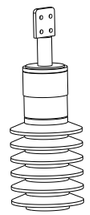




Catalog Number	Height (A)	Base Diameter (B)	Other Measurements (C)	Additional Notes
BCIC-5.5D/16-HO (B3)	17.1 (434)	3.2 (81)	5.5 (140) top diam.	



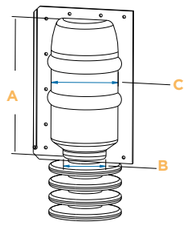


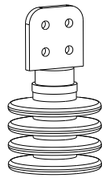


Catalog Number	Height (A)	Base Diameter (B)	Other Measurements (C)	Additional Notes
BCIC-8D/15-HO (B3)	16.2 (411)	8.0 (203.2)	5.5 (140) top diam.	4.5 (114) middle section diam., 12.5 height of section C.
BCIC-8D/18-HO (B3)	19.2 (488)	8.0 (203.2)	5.5 (140) top diam.	4.5 (114) middle section diam., 12.5 height of section C.

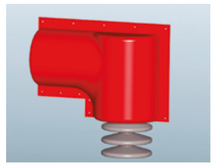
PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

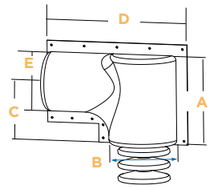


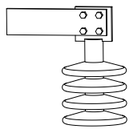




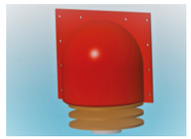
Catalog Number	Height (A)	Base Diameter (B)	Other Measurements (C)	Additional Notes
BCIC-5.5D/11-H0(B3)	11.5 (292)	3.50 (89)	5.50 (140) mid diam.	N/A

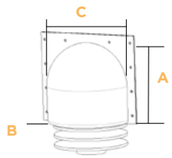






Catalog Number	Height (A)	Base Diameter (B)	Other Measurements (C)	Additional Notes
BCIC-10D/18-3 (B3)	14 (140)	9 (90)	7.75 (77.5)	(D)- 17.00 (E)- 8

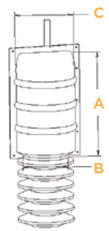






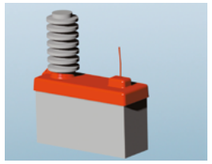
Catalog Number	Height (A)	Base Diameter (B)	Other Measurements (C)	Additional Notes
BCIC-8.25D/8	8 (80)	3 (30)	8.5 (85)	

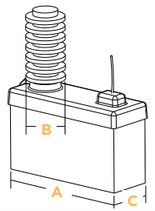


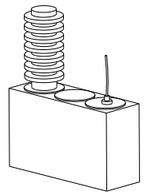




Catalog Number	Height (A)	Base Diameter (B)	Other Measurements (C)	Additional Notes
BCIC-10D/18 (B3)	18 (457.2)	10 (254)	7.7 (195.58)	Bottom Port opening

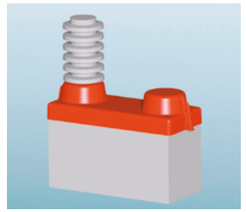


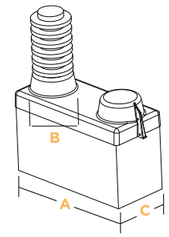




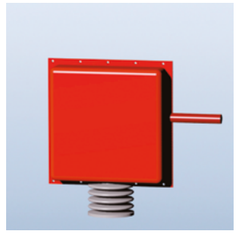
Catalog Number	(A)	Base Diameter (B)	Other Measurements (C)	Additional Notes
BCIC-0270-SCE (B3)	13.5 (135)	4.625 (117)	4.625 (46.25)	13.3 (338) length

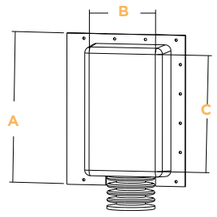
PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

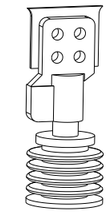




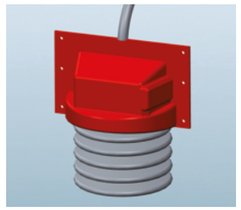
Catalog Number	(A)	Base Diameter (B)	Other Measurements (C)	Additional Notes
BCIC-0370-SCE (B3)	13.5 (mm)	3.63 (92)	5.875 (mm)	N/A

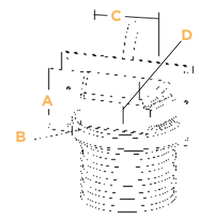


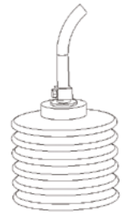




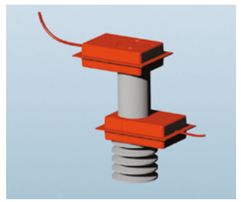
Catalog Number	Height (A)	Base Diameter (B)	Other Measurements (C)	Additional Notes
BCIC-12/12/5-H (B3)	12 (305)	12 (305)	5 (127)	N/A
BCIC-14/19/6-U (B3)	14 (356)	19 (483)	6 (142)	N/A
BCIC-24/11/12 (B3)	11 (279)	24 (610)	12 (304)	N/A
BCIC-4/12/4-H (B3)	4 (102)	12 (305)	4 (102)	N/A
BCIC-7/12/7-H (B3)	7 (178)	12 (305)	7 (178)	N/A
BCIC-4/16/4-H (B3)	4 (102)	16 (406)	4 (102)	N/A

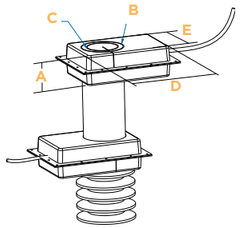






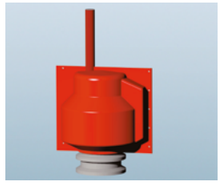
Catalog Number	Height (A)	Base Diameter (B)	Other Measurements (C)	Additional Notes
BCIC-8D/6 (B3)	4.8 (121.92)	8 (203.2)	6.5 (165.1) wide	(D)- 5.00 Supplied in two halves with no pre cut openings

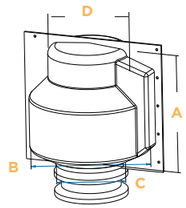




Catalog Number	Height (A)	Base Diameter (B)	Other Measurements (C)	Additional Notes
BCIC-8/12/2-U(B3)	4 (101)	5.75 (146.1)	4.25 (108) inner diam.	(D)- 12.0 (305) wide (E)- 8.0 (203) long

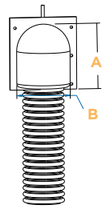
PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)





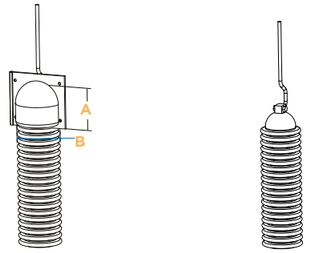
Catalog Number	Height (A)	Base Diameter (B)	Other Measurements (C)	Additional Notes
BCIC-13D/13-HO (B3)	13 (330)	13 (330)	7.5 (191) inner diam.	(D)- 8.8 (224) top diam.



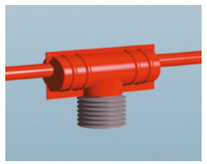


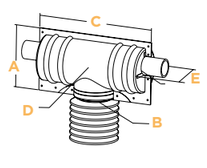
Catalog Number	Height (A)	Base Diameter (B)	Other Measurements (C)	Additional Notes
BCIC-5D/6 (B3)	6 (152)	5 (127)	N/A	N/A

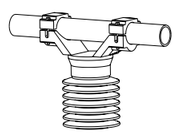




Catalog Number	Height (A)	Base Diameter (B)	Other Measurements (C)	Additional Notes
BCIC-4D/4 (B3)	4 (102)	4 (102)	N/A	N/A

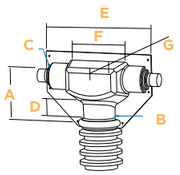


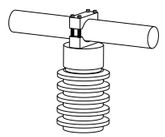




Catalog Number	Height (A)	Base Diameter (B)	Other Measurements (C)	Additional Notes
BCIC-7.5D/18-3 (B3)	10.4 (264)	4.5-6.75 (114-171)	20 (508) length	(D) 7.5 (191) L diam., (E) 2-4 (50-100) R diam.

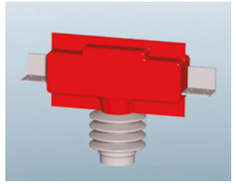


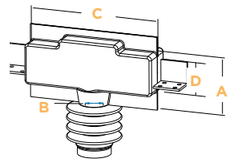


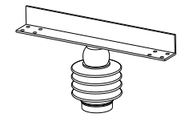


Catalog Number	Height (A)	Base Diameter (B)	Other Measurements (C)	Additional Notes
BCIC-SG-201-SCE(B3)	8.05 (204.5)	5.25 (133.4)	4.0 (102) Max side diam.	(D) 3.0 (76) base-joint height, (E) 17.5 (445) width (F) 8.25 (209.6) (G) 7.25 (184.2) depth

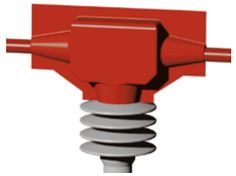
PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

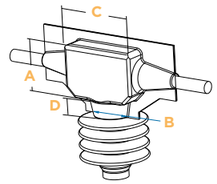


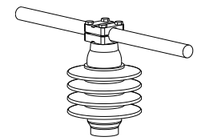




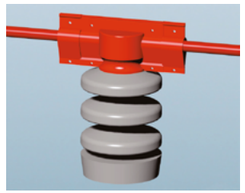
Catalog Number	Height (A)	Base Diameter (B)	Other Measurements (C)	Additional Notes
BCIC-TR205-L (B3)	7.5 (191)	2.25 (57)	17.0 (432) length	(D) 4.25 (108) side height

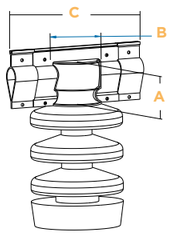


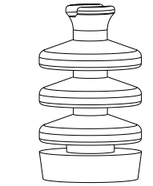




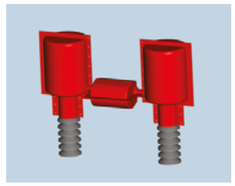
Catalog Number	Height (A)	Base Diameter (B)	Other Measurements (C)	Additional Notes
BCIC-TR205-R (B3)	5.5 (140)	4.5 (114)	8.0 (203)	(D) 2 (50) joint height

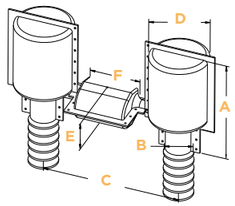


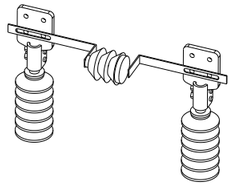




Catalog Number	Height (A)	Base Diameter (B)	Other Measurements (C)	Additional Notes
BCIC-3212-01 (B3)	3.5 (89)	4.125 (105)	12 (305) long	N/A



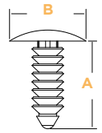




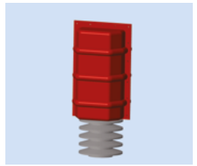
Catalog Number	Height (A)	Base Diameter (B)	Other Measurements (C)	Additional Notes
BCIC-BYPASS (B1)	13.75 (349.25)	3.75 (95.25)	19.00 (483) max distance	8.00 (203) top diam.,(D) 4.00 (102) connector diam., (E) 7.00 (178) (F) Design has two columns Connected with a cylinder

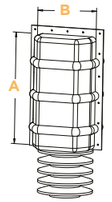
PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

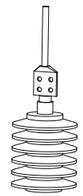




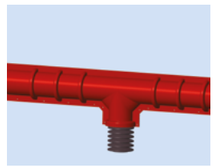
Catalog Number	Height (A)	Base Diameter (B)	Other Measurements (C)	Additional Notes
BCIC-LATCH (B250)	.800 (20.32)	.700 (17.78)	N/A	Std. Pack: 250 Latches or 1000 Latches

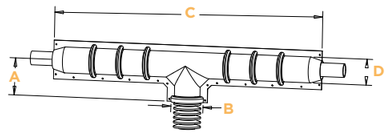


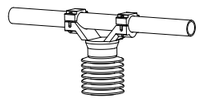




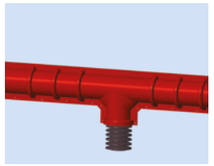
Catalog Number	Height (A)	Base Diameter (B)	Other Measurements (C)	Additional Notes
BCIC-11.5D/22(B3)	22 (559)	11.5 (292)	N/A	No pre trimmed openings

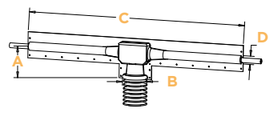


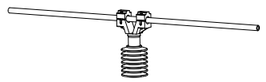




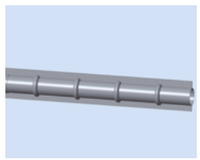
Catalog Number	Height (A)	Base Diameter (B)	Other Measurements (C)	Additional Notes
BCIC-5.5D/60(B3)	8 (200)	7 (178)	60 long (1524)	D- fits up to a 5.5" dia. bus

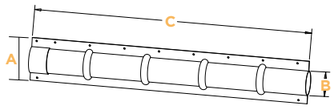






Catalog Number	Height (A)	Base Diameter (B)	Other Measurements (C)	Additional Notes
BCIC-1.5D/60(B4)	10.5 (267)	6.5 (165)	60 long (1524)	D- fits up to a 2" dia. bus





Catalog Number	Height (A)	Base Diameter (B)	Other Measurements (C)	Additional Notes
BCIC-G-4D/48-01(B4)	7.25 (184)	4 (101)	48 long (1219)	N/A

MVFT Medium Voltage Fusion Tapes

FEATURES

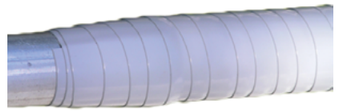
- Self amalgamating
- Designed to combine the integrity of silicone polymer with the versatility of a wraparound product
- MVFT will stick to itself and other insulating materials, but will not adhere to metal or porcelain

APPLICATIONS

- TE Raychem MVFT retrofit insulation of busbars
- Insulation when existing equipment can not be dismantled
- Suitable for indoor and outdoor use

BENEFITS

- Quick and easy to install
- Over-lapped layers amalgamate together, producing a complete seal
- A single layer of MVFT tape, two-thirds overlapped, will provide flashover protection to at least 15 kV and increases to 35 kV if second layer is added
- Selective sticking allows for easy removal for maintenance



PRODUCT SELECTION INFORMATION

Catalog Number	Color	Width UOM: Inches (mm)	Length per Roll Feet (m)	Std. Pack
MVFT-G-2-12 (B4)	Gray	2 (50)	*36 (11)*	4 rolls

RECTANGULAR BUSBAR

Bus Width inches (mm)	Bus Length Insulated per Roll 2/3 Overlap feet (m)
1.0 (25)	*8 (2.4)*
2.0 (50)	*4.7 (1.4)*
3.0 (75)	*3.1 (0.9)*
4.0 (100)	*2.3 (0.7)*
6.0 (150)	*1.4 (0.4)*
8.0 (200)	*0.4 (0.1)*

ROUND BUSBAR

Bus Width inches (mm)	Bus Length Insulated per Roll 2/3 Overlap feet (m)
0.5 (12)	*12.9 (3.9)*
1.0 (25)	*7.2 (2.2)*
2.0 (50)	*3.6 (1.1)*
3.0 (75)	*2.2 (0.7)*
4.0 (100)	*2.0 (0.6)*

SQUARE BUSBAR

Bus Width inches (mm)	Bus Length Insulated per Roll 2/3 Overlap feet (m)
1x1 (25)	*5.7 (1.7)*
2x2 (50)	*2.8 (0.8)*
3x3 (75)	*1.9 (0.6)*
4x4 (100)	*1.7 (0.5)*

ADDITIONAL PRODUCT INFORMATION

• EDR-5465 Medium Voltage Fusion Tape Qualification Report

MVCC Medium Voltage Conductor Covers

FEATURES

- Made from non-tracking silicone material TE Raychem MVCC is suitable for harsh medium voltage outdoor environments
- Covers are split for easy installation
- Four sizes available which fit conductor diameters ranging up to 1.75 inch

APPLICATIONS

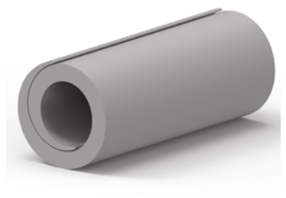
- Substation
- Suitable for up to 25 kV phase to ground

BENEFITS

- Provide high quality electrical insulation for substation leads and jumpers
- Flexibility allows installation on tight bends
- Specifically designed to prevent flashover caused by contact with birds and animals

PRODUCT SELECTION INFORMATION

Catalog Number	Conductor Diameter Use Range UOM: inches (mm)	Color	Supplied Length UOM: feet (M)
MVCC-10/.40 (B100)	up to .450 (11)	Red	*2 pieces at 50 (15.24)*
MVCC-G-10/.40 (B100)	up to .450 (11)	Gray	*2 pieces at 50 (15.24)*
MVCC-19/.75 (B50)	0.50-0.75 (12-19)	Red	*2 pieces at 25 (7.6)*
MVCC-G-19/.75 (B50)	0.50-0.75 (12-19)	Gray	*2 pieces at 25 (7.6)*
MVCC-25/1.0 (B25)	0.75-1.125 (19-28)	Red	*1 piece at 25 (7.6)*
MVCC-G-25/1.0 (B25)	0.75-1.125 (19-28)	Gray	*1 piece at 25 (7.6)*
MVCC-45/1.75 x 4 (B24)	1.125-1.75 (28-44)	Red	*6 pieces at 4 (1.2)*
MVCC-G-45/1.75 x 4 (B24)	1.125-1.75 (28-44)	Gray	*6 pieces at 4 (1.2)*
MVCC-90/3.5X4 (B12)	2.25 – 3.50 (57-89)	Red	*3 pieces at 4 (1.2)*
MVCC-G-90/3.5X4 (B12)	2.25 – 3.50 (57-89)	Gray	*3 pieces at 4 (1.2)*
MVCC-115/4.5X4 (B12)	3.50-4.50 (89-115)	Red	*3 pieces at 4 (1.2)*
MVCC-G-115/4.5X4 (B12)	3.50-4.50 (89-115)	Gray	*3 pieces at 4 (1.2)*



TOOLING INFORMATION

Product	Tool Description
MVCC-10/.40	MVCC-TOOL-10(B3)
MVCC-19/.75 and MVCC-25/1.0	MVCC-TOOL-19/25(B3)

ADDITIONAL PRODUCT INFORMATION

[a] EDR-5461 Medium voltage Conductor Cover Electrical Testing and EDR-5498 Material test

BCIC-Angle Medium Voltage Conductor Covers

FEATURES

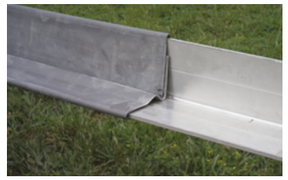
- Modular/ Wraparound product design
- Retrofit insulation on 3 to 4 inch angle busbars
- Insulation when existing equipment cannot be dismantled

APPLICATIONS

- TE Rayhem BCIC-Angle BUS Cover is suitable for indoor and outdoor use

BENEFITS

- Quick and easy to install
- Over-lapped sections together, produce increased bus bar coverage
- The BCIC angle bus cover will provide flashover protection up to 35 kV.



PRODUCT SELECTION INFORMATION

Catalog Number	Color	Busbar in (mm)	Supplied Length feet	Standard Pack pieces
BCIC-ANGLE-4X48 (B6)	Red	3-4 (75-100)	*4*	6
BCIC-G-ANGLE-4X48 (B6)	Gray	3-4 (75-100)	*4*	6

ADDITIONAL PRODUCT INFORMATION

• EDR-5594 BCIC-ANGLE-4X48 Electrical Testing

BCIC/BCAC Raptor Protection Covers

FEATURES

- Reliable outage protection
- Fast and versatile installation
- High performance material
- Rugged, non-tracking, UV-resistant polymer
- Long-term performance in extreme conditions

APPLICATIONS

- TE Raychem BCIC raptor protection covers protect overhead insulators to prevent outages caused by birds

BENEFITS

- TE Raychem BCIC insulating covers have a long history of succesful outage prevention and these covers are designed to provide the same great protection with additional features
- Designed to nest over vibration dampers



PRODUCT SELECTION INFORMATION

Catalog Number	Application	Conductor Range	Cover Legnth (in)	Type/ANSI	Standard Pack
BCIC-G-DPIN-795-01 (B6)	Double PIN Insulator	#6-795	41	55-5, 55-6, 55-7, 56-1, 56-2, 56-3	6
BCIC-G-DPIN-556-01 (B6)	Double PIN Insulator	#6-556	42	55-2, 55-3, 55-4, 55-5	6
BCIC-G-DSMPIN-795-01 (B6)	Double PIN Insulator	#6-795	42	55-5, 55-6, 55-7, 56-1, 56-2, 56-3	6
BCIC-G-HZ-795-XL (B6)	Horizontal Post	#6-795	29	Polymeric	6
BCIC-G-HZPOR/3.5D-795-01 (B6)	Horizontal Post	#6-795	29	Porcelain >35 kV	6
BCIC-G-HZPOR/4.5D-795-01 (B6)	Horizontal Post	#6-795	29	Porcelain 25 to 35 kV	6
BCIC-G-DE/CL-01 (B6)	Dead End	#6-795	27	Conductor	6
BCAC-G-DEADEND (B3)	Dead End	#6-795	26.6	Porcelain/Polymeric	3

ADDITIONAL PRODUCT INFORMATION

• Related Test Reports: EDR-5562, EDR-5369

BCIC-GT Raptor Protection Covers

FEATURES

- Reliable outage protection
- Fast and versatile installation
- High performance material
- Rugged, non-tracking, UV-resistant polymer
- Long-term performance in extreme conditions

APPLICATIONS

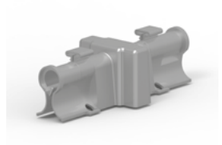
- TE Raychem BCIC-GT raptor protection covers protect overhead insulators to prevent outages caused by birds

BENEFITS

- TE Raychem BCIC-GT insulating covers have a long history of succesful outage prevention and these covers are designed to provide the same great protection with additional features
- Up to 10 feet of coverage on conductor sizes ranging from #6 to 795 can be achieved when one cover and two arms are installed together
- Designed to nest over vibration dampers



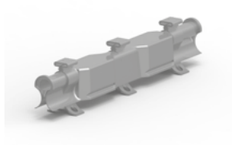
BCIC-GT-PIN (B6)



BCIC-GT-PIN/CT (B6)



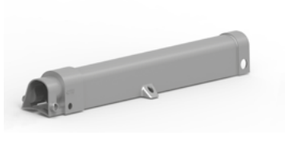
BCIC-GT-PIN/XL (B6)



BCIC-GT-DPIN (B6)



BCIC-GT-HZ (B6)



BCAC-G-ARM-01 (B12)

PRODUCT SELECTION INFORMATION

Catalog Number	Application	Range	Length (in)	Insulator Type/ANSI	Standard Pack
BCIC-GT-PIN (B6)	Porcelain Pin, Post	#6-795	20	55-4, 55-5, 57-2	6
BCIC-GT-PIN/CT (B6)	Vise Top	#6-795	20	Vise Top, Hendrix	6
BCIC-GT-PIN-XL (B6)	Porcelain Pin	#6-795	21	56-1, 55-6, 55-7	6
BCIC-GT-DPIN (B6)	Porcelain Pin, Post	#6-795	30.5	55-4. 55-5, 57-2	6
BCIC-GT-HZ (B6)	Horizontal Post	#6-795	21	Polymeric	6
BCAC-G-ARM-01 (B12)	Extension	#6-795	31	-	12

ADDITIONAL PRODUCT INFORMATION

• Related Test Report: EDR-5620 Salt Fog and Electrical Evaluation,
• EDR-5609 Raptor Cover Mechanical/Electrical Evaluation

BCAC Distribution Covers for Animal Protection

FEATURES

- TE Raychem BCAC covers wide range of sizes
- Advanced polymers are rugged, track resistant, UV resistant

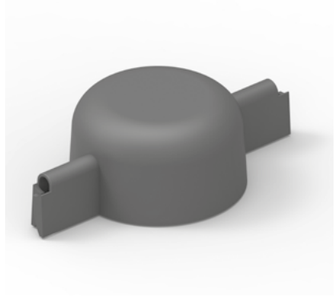
APPLICATIONS

- Terminations
- Reclosures
- Lightning arresters
- Fuse Cut-outs

BENEFITS

- Extensive testing has ensured that the cover will not damage or deteriorate the terminations
- Can be installed on energized equipment
- Secured to the stud and the conductor to insure protection even in high winds
- The BCAC-G-CUTOUT is hot-stickable and easily clips onto cutout insulators between first and second skirt

BCAC-AR-5D-2



PRODUCT SELECTION INFORMATION

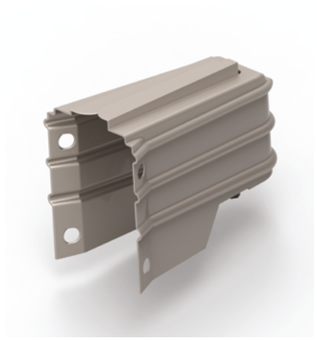
Catalog Number	Hardware
BCAC-P-IC-5D/6 (B6)	Transformer Bushing
BCAC-G-4D/13-2 (B18)	Terminations
BCAC-G-5D/8-01 (B12)	Transformer Bushing
BCAC-G-AR-5D-2 (B24)	Ohio Brass Arrester
BCAC-G-AR-4D-2 (B24)	TE Arrester
BCAC-G-AR-3.75D-2 (B24)	Cooper Arrester
BCAC-G-CUTOUT-100-01-B12	Fuse Cutout Switch (100 AMP) Porcelain style
BCAC-G-CUTOUT-100-P2-B12	100-AMP/Polymeric (Hubbel & Cooper style)
BCAC-G-CUTOUT-FT (B3)	Fuse Cutout Switch (200 AMP) Porcelain style
BCAC-G-CUTOUT-FT-P (B3)	Fuse Cutout Switch (200 AMP) Polymeric style



BCAC-4D/13-2



BCAC-P-IC-5D/6



BCAC-G-CUTOUT-100-01

ADDITIONAL PRODUCT INFORMATION

• Related test reports: EDR-5407 for Bushing covers, EDR-5569 for BCAC-P-IC, EDR-5571 for BCAC-AR, EDR-5573 for cutouts

BCIC Reclosers

FEATURES

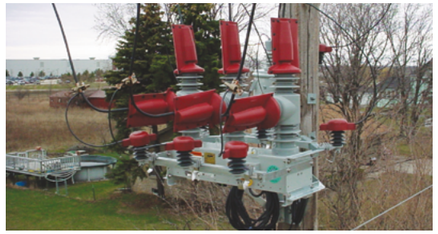
- One piece hinged design allows easy and quick installations
- Cover can be re-entered for maintenance needs and then reused
- Rated for up to 35kV

APPLICATIONS

- Reclosers

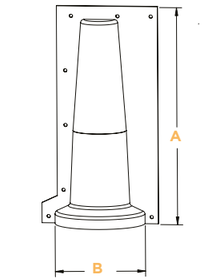
BENEFITS

- Other TE Raychem products can be purchased that insulate the leads and lightning arresters
- Years of reliable service and re-usable design lowers overall lifetime costs

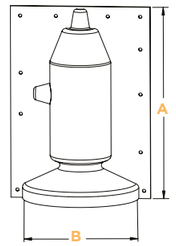


PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

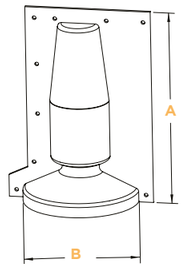
Catalog Number	Color	Height (A)	Max Skirt (B)
BCIC-G-Reclosercover (B6)	Gray	12.4 (315)	7.8 (198)
BCIC-G-Recloser-100 (B30)	Gray	15.4 (390)	6.75 (171)
BCIC-G-Recloser-200 (B6)	Gray	14.5 (368)	8.5 (216)
BCIC-Reclosercover (B6)	Red	12.4 (315)	7.8 (198)
BCIC-Recloser-100 (B6)	Red	15.4 (390)	6.75 (171)
BCIC-Recloser-200S (B6)	Red	18.3 (465)	8.3 (211)
BCIC-G-Recloser-200S (B6)	Gray	18.3 (465)	8.3 (211)
BCIC-5D/8/11 (B6)	Red	9.0 (228)	4.8 (122)



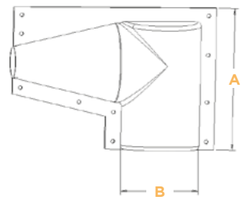
BCIC-G-Recloser-100 (B6)



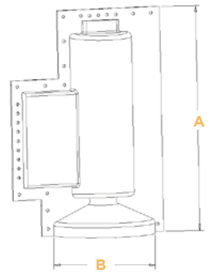
BCIC-G-Recloser-200 (B6)



BCIC-G-Reclosercover (B6)



BCIC-5D/8/11 (B6)



BCIC-Reclosure-200s (B6)

MVLC Medium Voltage Line Covers

FEATURES

- Wrap-around cover
- Installation is possible on energized lines utilizing the MVLC tool which can be manually or automatically operated

APPLICATIONS

- Overhead conductors

BENEFITS

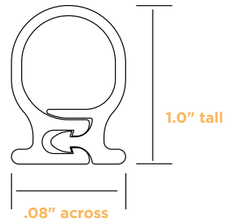
- Prevents electrical outages caused by incidental contact from tree branches or wildlife
- Can be applied selectively on problem spans to avoid costly conductor replacement



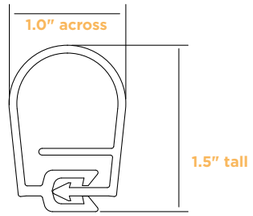
PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Product Size	Conductor Size	Max. Conductor Dia.	Voltage Class
MVLC-14-A/U-C(100)	#6-3/0 kmcil	0.5 (12.7)	15 kV
MVLC-14-A/241-C(100)	#6-3/0 kmcil	0.5 (12.7)	25 kV
MVLC-18-A/U-C(75)	#2-397 kcmil	.75 (18)	15 kV
MVLC-18-A/241-C(75)	#2-397 kcmil	.75 (18)	25 kV
MVLC-38R-A/U-C (50)	#2-1590 kcmil	1.375 (35)	15 kV
MVLC-38R-A/241-C (50)	#2-1590 kcmil	1.375 (35)	25 kV

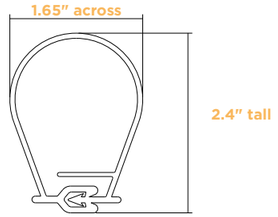
MVLC-14



MVLC-18



MVLC-38R



Mvlc-Installation Tools For Overhead Conductors





MVLC-HAND-TOOL-14



MVLC-HAND-TOOL-02

Product Size	Conductor Size
MVLC-14-TOOL-100	for use with MVLC-14
MVLC-18-TOOL-03-2006	for use with MVLC-18
MVLC-38R-OHTOOL	for use with MVLC-38R
MVLC-HAND-TOOL-14	hand tool for installing MVLC-14
MVLC-HAND-TOOL-02	hand tool for installing MVLC-18
MVLC-38R-HAND TOOL	hand tool for installing MVLC-38R

ADDITIONAL PRODUCT INFORMATION

- Overhead Conductors: Standard package for MVLC-14 is 330 feet (100m) continuous on a spool. Standard package for MVLC-18 is 247 feet (75m) continuous on a spool.
- Related Test Reports: EDR-5308, EDR-5309, EDR-5316, EDR-5478

- MVLC TOOL contains the MVLC installation tool, MVLC cutters, drainage hole punch, hand crank, and a drive nut socket packaged in a protective bag
- MVLC can be installed at temperatures above 0ºC (32ºF)

PRODUCT PERFORMANCE

Test		MVLC-A/U / MVLC-A/241 (Sealed)	
AC withstand (dry) - 1minute		15 kV min / 25 kV min	
AC withstand (wet) - 1 minute		15 kV min / 25 kV min	
AC long term withstand (dry) - 4 hours		8.6 kV min / 14.4 kV min	
30 day thermal loading (8 hr at 130º; 16 hr off)		No MVLC deformation	
Conductor ampacity		82 - 89% of bare conductor ampacity	
Material Properties Per pps 3010/42		**Test Method**	**Requirement**
Physical	Tensile Strength Ultimate Elongation Abrasion Resistance Low Temperature Impact	ASTM D638 ASTM D638 1000 cycles, 2068g ASTM D746	8 Mpa min 1150 psi min 200% min 20% max thickness loss No Cracking at -20ºC
Electrical	Dielectric Strength Tracking and Erosion Resistance	ASTM D149 ASTM D2303 Step Voltage Method (Initiate at 2.5 kV)	217 kV/cm @ 1.27 mm 550 V/mil min @ 0.050" No tracking or erosion to top surface or flame failure after: 200 minutes

BCIC-115-PH Transmission Flashover Protection Covers

FEATURES

- TE Raychem BCIC-115-PH can be used on both porcelain disc and polymeric insulator designs
- Unique design allows the cover to rest on the lowest insulator for porcelain i-string designs
- Made from robust BCIS high-voltage material that is rugged, non-tracking, and UV-Resistant polymer

APPLICATIONS

- 115 kV transmission lines

BENEFITS

- Long-term performance even in the most extreme environmental conditions
- Can be used on energized or de-energized installations



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Length	Height	Insulator Range	Applications
BCIC-115-PH (B1)	74 (1879.6)	15 (381)	9 12 (229-305)	Main cover
BCIC-Collar-50/280-5-B				Adapter collar for polymeric installations

BCIC-AFD-01 Avian Flight Diverter

FEATURES

- TE Raychem BCIC-AFD-01 is designed to prevent bird collisions with power lines
- Incorporates high reflectivity and "glow-in-the dark" appliques
- Easy to install, Hot-stickable, removeable
- Made from robust BCIC polymer that is rugged, non-tracking and UV resistant

APPLICATIONS

- Distribution and transmission lines

BENEFITS

- Long-term performance even in the most extreme environmental conditions
- Can be used on energized or de-energized installations



PRODUCT SELECTION INFORMATION: DIMENSIONS IN IN(MM)

Catalog Number	Description	Dimensions W x H	Conductor Size	Standard Pack
CU7208-000	BCIC-AFD-01 (B10)	4 x 3.5 (102 - 89)	#6-795	10

ADDITIONAL PRODUCT INFORMATION

- EDR-5536, Rev. A

HVCE High Voltage Creepage Extenders

FEATURES

- TE Raychem HVCE high voltage creepage extenders are heat shrinkable
- Resistant to conventional spray washing techniques
- Will withstand most normal handling, abuse, and extreme weather conditions

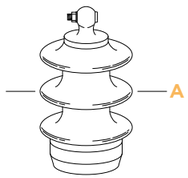
APPLICATIONS

- Insulators

BENEFITS

- Increases the flashover performance of insulators by reducing the surface electrical stress and leakage current and increasing the electric strength of the insulators





PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Skirt Diameter of Insulator (Min-Max) (A)	Minimum Internal Diameter of HVCE (as supplied)	Creepage Extension Per Extender (mm)	Standard Pack (pcs/box)
HVCE 100/80-01 (B-6)	3.20-3.90 (81-99)	4.50 (114)	101.6	6
HVCE 120/100-01 (B-6)	3.90-4.70 (99-119)	5.30 (135)	101.6	6
HVCE 140/120-01 (B-6)	4.70-5.50 (119-140)	6.10 (155)	101.6	6
HVCE 160/140-01 (B-6)	5.50-6.30 (140-160)	7.00 (178)	101.6	6
HVCE 183/161-01 (B-6)	6.30-7.20 (160-183)	8.00 (203)	101.6	6
HVCE 205/184-01 (B-6)	7.20-8.10 (183-206)	9.00 (229)	101.6	6
HVCE 226/206-11 (B3)	8.10-8.90 (206-226)	9.40 (239)	101.6	3
HVCE 247/227-11 (B3)	8.90-9.70 (226-246)	10.30 (262)	101.6	3
HVCE 268/248-11 (B3)	9.70-10.50 (246-267)	11.10 (282)	101.6	3
HVCE 289/269-11 (B3)	10.50-11.40 (267-290)	11.90 (302)	101.6	3
HVCE 310/290-11 (B3)	11.40-12.20 (290-310)	12.70 (323)	101.6	3
HVCE 331/311-11 (B3)	12.20-13.00 (310-330)	13.60 (345)	101.6	3
HVCE 352/332-11 (B3)	13.00-13.90 (330-353)	14.40 (366)	101.6	3
HVCE 373/353-11 (B3)	13.90-14.70 (353-373)	15.20 (386)	101.6	3
HVCE 394/374-11 (B3)	14.70-15.50 (373-393)	16.10 (409)	101.6	3

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number. Confirm selection with insulator skirt outer diameter (A)
- Each HVCE extender adds a nominal 4 inches to the creepage length. As a general recommendation, TE advises a 20 percent increase in existing creepage distance. Use this formula to calculate the number of creepage extenders needed: Existing creepage distance in inches x 0.2 / 4 = Minimum number of HVCE creepage extenders recommended (i.e., 40 inches creepage x 0.2 / 4 = 2 HVCEs needed). Always round up to a whole number (i.e., 1.33 to 2 HVCE's)
- For applications that do not fall within the ranges above, contact your local TE representative
- HVCE does does not upgrade the voltage class of the insulator.
- Related test reports: UVR-8138, UVR-8144, UVR-8037, EDR-5350

HVCE-WA Wraparound High Voltage Creepage Extenders

FEATURES

- TE Raychem HVCE-WA creepage extender has a wrap-around product design
- Adds six inches of creepage length

APPLICATIONS

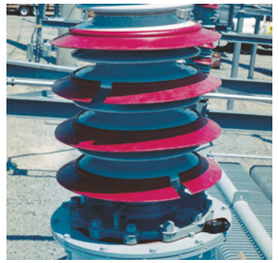
- Insulators

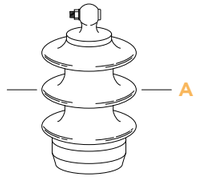
BENEFITS

- Installs without having to disconnect equipment/conductors
- For use in highly contaminated applications

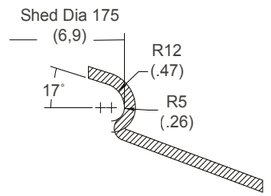
PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Shed Diameter of Insulator (A)	Standard Pack
HVCE-WA-175-02-FT (B6)	6.90 (175)	6
HVCE-WA-206-01 (B6)	8.11 (206)	6
HVCE-WA-216-01 (B6)	8.50 (216)	6
HVCE-WA-221-01 (B6)	8.70 (221)	6
HVCE-WA-226-01 (B6)	8.90 (226)	6
HVCE-WA-227-01 (B6)	8.94 (227)	6
HVCE-WA-234-01 (B6)	9.21 (234)	6
HVCE-WA-244-01-FT (B6)	9.61 (244)	6
HVCE-WA-248-01 (B6)	9.76 (248)	6
HVCE-WA-251-01 (B6)	9.88 (251)	6
HVCE-WA-255-01 (B6)	10.04 (255)	6
HVCE-WA-267-01 (B6)	10.51 (267)	6
HVCE-WA-271-01 (B6)	10.67 (271)	6
HVCE-WA-280-01-FT (B6)	11.02 (280)	6
HVCE-WA-281-01 (B6)	11.06 (281)	6
HVCE-WA-287-01 (B6)	11.30 (287)	6
HVCE-WA-292-01 (B6)	11.50 (292)	6
HVCE-WA-303-01 (B6)	11.93 (303)	6
HVCE-WA-323-01 (B6)	12.72 (323)	6
HVCE-WA-326-01 (B6)	12.83 (326)	6
HVCE-WA-330-01 (B3)	13.00 (330)	3
HVCE-WA-336-01 (B6)	13.23 (336)	6
HVCE-WA-341-01 (B6)	13.39 (341)	6
HVCE-WA-348-01 (B6)	13.70 (348)	6
HVCE-WA-349-01 (B6)	13.74 (349)	6
HVCE-WA-356-01 (B6)	14.02 (356)	6
HVCE-WA-359-01 (B6)	14.13 (359)	6
HVCE-WA-364-01 (B6)	14.33 (364)	6
HVCE-WA-367-01 (B6)	14.45 (367)	6
HVCE-WA-372-01 (B6)	14.65 (372)	6
HVCE-WA-373-01 (B6)	14.68 (373)	6
HVCE-WA-377-01 (B6)	14.84 (377)	6
HVCE-WA-381-01 (B6)	15.00 (381)	6
HVCE-WA-392-01 (B6)	15.43 (392)	6
HVCE-WA-393-01 (B6)	15.47 (393)	6
HVCE-WA-406-01 (B6)	15.98 (406)	6
HVCE-WA-407-01 (B6)	15.98 (407)	6
HVCE-WA-413-01 (B6)	16.26 (413)	6
HVCE-WA-421-01 (B6)	16.54 (421)	6
HVCE-WA-426-01 (B6)	16.77 (426)	6
HVCE-WA-429-01 (B6)	16.89 (429)	6
HVCE-WA-440-01 (B6)	17.32 (440)	6
HVCE-WA-442-01-FT (B6)	17.40 (442)	6
HVCE-WA-452-01 (B6)	17.60 (452)	6
HVCE-WA-457-01 (B6)	18.00 (457)	6
HVCE-WA-463-01 (B6)	18.23 (463)	6
HVCE-WA-482-01 (B3)	18.98 (482)	3
HVCE-WA-488-01 (B6)	19.21 (488)	6
HVCE-WA-490-01 (B6)	19.29 (490)	6
HVCE-WA-501-01 (B6)	19.72 (501)	6





Example of a typical cross section of an HVCE with the dimensions representing that of the insulator profile



ADDITIONAL PROCUCT INFORMATION

- Each HVCE-WA Extender adds six inches to the creepage length. As a general recommendation, TE advises a 20 percent increase in existing creepage distance. Use this formula to calculate the number of creepage extenders needed:

  Existing creepage distance in inches x 0.2 / 6 = Minimum number of HVCE creepage extenders recommended. (i.e., 60" x .2 / 6 = 2 HVCE-WAs needed). Always round up to a whole number (i.e., 1.33 - 2 HVCE's needed).
- HVCE does not upgrade the voltage class of the insulator
- Related Test Reports: UVR-8152, EDR-5350 Related Installation Instructions: HVCE-WA
- Installation Tool: HVCE-WA-TOOL
- For Applications that do not fall within the ranges above, contact your TE representative.

HVBS High Voltage Booster Sheds

FEATURES

- Spacers and short pegs which separate it from the porcelain skirt and insulator core
- TE Raychem HVBS booster shed is a wrap around for rapid installation

APPLICATIONS

- Circuit breaker bushings
- Bus support insulators
- Surge arrresters
- Transformer bushings

BENEFITS

- Prevents "Heavy Wetting" and ice-cascade-induced flashovers
- Made with advanced UV-resistant and anti-tracking polymer



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Suitable Insulator Core	Medium Outside Insulator Skirt	Booster Shed Diameter Fully Installed
HVBS-770/310-01-M-BP	8.9-10.1 (227-257)	12.0 (304)	28.1 (713)
HVBS-740/280-01-M-BP	7.8-9.0 (199-229)	10.9 (276)	27.0 (685)
HVBS-710/250-01-M-BP	6.9-7.9 (175-201)	9.8 (249)	25.9 (657)
HVBS-685/225-01-M-BP	6.2-7.0 (158-178)	9.3 (235)	25.0 (634)
HVBS-665/205-01-M-BP	5.5-6.3 (140-160)	8.5 (216)	24.3 (616)
HVBS-615/155-01-M-BP	3.7-4.5 (94-114)	6.3 (161)	22.4 (569)

ADDITIONAL PRODUCT INFORMATION

- Related Test Report: UVR-8107 Qualification report for Booster Sheds
- Please contact your TE sales team for other available sizes.

RRGS Polymeric and Porcelain Rigid Red Guano Shields

FEATURES

- TE Raychem RRGS is designed to fit both porcelain bells and polymeric insulators
- Two piece design allows for quick installation

APPLICATIONS

- Vertical insulator strings

BENEFITS

- Protects insulators from bird streamers





PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES

Catalog Number	Insulator Type	Shield Diameter	Color
RRGS-35/470-POLY(B12)	Polymeric/Sylicone	450 (18)	Red
RRGS-G-35/470-POLY(B12)	Polymeric/Sylicone	451 (18)	Gray
RRGS-35/470-M-PGE(B12)	Porcelain/Glass	452 (18)	Red
RRGS-G-35/470-M-PGE(B12)	Porcelain/Glass	453 (18)	Gray
RRGS-35/600-PGE(B3)	Polymeric/Sylicone	600 (24)	Red
RRGS-G-35/600-PGE(B3)	Polymeric/Sylicone	601 (24)	Gray
RRGS-35/600-M-PGE(B3)	Porcelain/Glass	602 (24)	Red
RRGS-G-35/600-M-PGE(B3)	Porcelain/Glass	603 (24)	Gray

Protection, Repair and Maintenance

TE Raychem Wildlife and Asset Protection product family offers easy-to-install busbar insulation systems for both the field engineer and the manufacturer. These electrical insulation products provide flashover protection against the accidental bridging of conductors commonly caused by birds and animals.

The system is ideal for both enclosed and exposed bus work and for connections in switchgear lineups, substations, and other electrical apparatus. It also permits clearance reduction in many applications.

Excellent Electrical and Thermal Performance

TE Raychem Wildlife and Asset Protection products are manufactured from high dielectric strength, radiation-crosslinked, heat shrinkable materials. The high-voltage materials are specially formulated to provide high resistance to arcing and tracking. All high-voltage and low-voltage materials provide high-thermal endurance throughout the range of switchgear operating temperatures. They offer field-proven reliability and long service life in harsh environments. In addition, these heat shrink tubing, tape, and sheet products can be preformed and pre-shrunk in the customer's shop, allowing easy, quick installation in the field.

Compatibility with other Insulating Materials

All Wildlife and Asset Protection heat shrinkable electrical insulation products are compatible with other solid switchgear insulating materials. Electrical insulating materials are not subject to stress crazing or embrittlement and are not adversely affected by common plasticizers used in conventional switchgear insulating materials.

Flame-retardant Materials

Most Wildlife and Asset Protection heat shrinkable electrical insulating materials pass the ANSI C37.20 switchgear insulation flammability tests.

Reduced Corrosive and Toxic Fumes

Wildlife and Asset Protection electrical insulation materials contain no chlorine compounds. This minimizes noxious and corrosive effects in case of equipment fault or fire.

For Protection, Repair, and Maintenance

Wildlife and Asset Protection heat shrinkable electrical insulating tubes, tapes, and sheets provide a complete system for electrical repair and maintenance of enclosed or exposed buswork and for connections in switchgear and electrical equipment. They offer:

- Fast, easy installation and removal
- A flexible system to cover most conductor shapes and sizes
- Consistent, reliable installation
- Consistent electrical and thermal performance
- Proven corrosion protection
- Compatibility with conventional solid insulating materials
- Protection against flashovers

For the Electrical Equipment Manufacturers

The Wildlife and Asset Protection system of insulation-enhancement components addresses the needs of electrical equipment manufacturers. The superior material properties and versatility of these components enhance the quality and reliability of the final product. Wildlife and Asset Protection electrical insulating materials feature.

- Low-hazard formulation
- Flexibility
- Track resistance
- Rugged, easy installation
- Excellent electrical and thermal performance
- Unlimited shelf life
- Corrosion protection of conductor
- TE assistance and support for testing and applications

Protection of Outdoor Equipment

TE Raychem Wildlife and Asset Protection electrical insulation products provide a complete system of insulation enhancement for high-voltage busbars and related equipment in outdoor substations and overhead lines. The system offers:

- Easy installation in the field
- Insulation for many different shapes, including busbars, joints, tees, insulators/bushing connections
- Flashover protection against accidental bridging
- Protection of wildlife and from wildlife-induced outages
- Excellent UV and weathering resistance
- Protection against corrosion
- Protection against incidental tree branch contact

Protection of Medium Voltage Products

Material Properties	Test Method	Requirements	BBIT/BPTM	BCIC/HVIS	BCAC, HVCE-WA, HVBT	HVCE	MVLC	BISG/RRBB
Test and Performance								
Volume Resistivity	ASTM D-257, IEC 93	ohm-cm min	1.0 x 1013	1.0 x 1013	1.0 x 1013	1.0 x 1013	1.0 x 1013	1.0 x 1013
Dielectric Constant	ASTM D-150, IEC 250	Maximum	5	5	5	5	5	5
Dielectric Strength	ASTM D-149, IEC 243	V/mil at 1.3mm min V/mil at 1.5mm min V/mil at 2mm min V/mil at 2.5mm min V/mil at 3mm min	500 450 400 350	330	330	250	550	V/mil at 2.5mm min: 380
Thermal								
Thermal Endurance	IEEE 1-1969, IEC 216	minimum	105ºC	105ºC	105ºC**	110ºC	105ºC	
Accelerated Aging for 168 Hours	ISO 188	Tensile strength Ultimate elongation	1450 psi 300%	1450 psi 300%	1450 psi 300%	1100 psi 300%	1450 psi 100%	2450 psi 25%
		Aging Temperature	120ºC	120ºC	120ºC	120ºC	120ºC	120ºC
Chemical								
Flammability	ANSI C37.20	Pass	Pass	Pass	Pass			
Water Absorption	ISO/R 62, Procedure A	1% max after 14 days at 23ºC	Pass	Pass	Pass	Pass	Pass	Pass
Low-Temperature Flexibility	ASTM D-2671, Procedure C	No cracking after 4 hours	Pass, -40ºC	Pass, -40ºC	Pass, -40ºC	Pass, -40ºC	Pass, -20ºC	Pass, -40ºC
Corrosion	Copper Mirror, ASTM D-2671, Proceure B	Passed visual inspection after 16 hours		Pass, 150ºC	Pass, 150ºC		Pass, 135ºC	
Physical								
Tensile Strength	ASTM D-638, ISO 37	psi. (min)	1450 < 4mm 1150 > 4mm	1450	1450	1150	1450	2450
Ultimate Elongation	ASTM D-638, ISO 37	% minimum	300	300	300	300	200	25

NOTE : Blank spaces indicate that property was not measured during product qualification
*Each product's voltage rating will be displayed with its selection information
**Properties measured on backing material only. HVBT has a 90ºC maximum continuous operating temperaure limit

Bus Insulation Technical Data

TABLE BACKGROUND

This table indicates clearance differences for rectangular busbars without and with various wildlife and asset protection electrical insulation products. These spacings are derived from BIL, AC-withstand, DC-withstand, and discharge-extinction tests on a limited number of busbar configurations insulated with electrical insulation products.

Due to the wide range of possible busbar geometries, these spacings should not be adopted without actual testing by the user. Sharp electrodes and unusual geometries will require greater spacings.

Note: Phase-to-phase distances are reduced more than phase-to-ground distances because it is assumed that each phase is insulated

BUSBAR DATA INFORMATION: DIMENSIONS IN IN(MM)

System Voltage (kV)	BIL (kV)	Uninsulated Clearance (Indoor)		BBIT Clearance (Indoor)		BPTM, HVBT, and HVIS Clearance (Indoor)	
		A*	B**	A*	B**	A*	B**
15	95	7.5 (190)	5.0 (125)	2.2 (55)	2.6 (65)	3.4 (85)	4.2 (105)
25	125	10.5 (265)	7.5 (190)	2.8 (70)	4.0 (100)	4.5 (115)	6.0 (150)
35	150	12.5 (320)	9.5 (240)	5.6 (140)	7.5 (190)	6.5 (165)	8.0 (200)

* Phase-to-phase
** Phase-to-Ground

RECOMMENDED GUIDE SPECIFICATION

Please feel free to use the following in your design specification:
Insulation for energized bus components and connections shall consist of tubing, tape, and sheets that are factory-engineered to meet applicable switchgear performance requirements.

All insulation components shall be fabricated from flexible, cross-linked, heat-shrinkable polymeric materials formulated to provide high dielectric strength, adequate thermal endurance at bus operating temperatures, and tracking and erosion resistance.

The insulation materials shall contain no halogen compounds and be compatible without commercial, factory-installed bus insulation materials.

Materials shall be installable at temperatures as low as -40°F. Adhesive coatings on tape and sheet products shall not adhere to metal surfaces, thus permitting easy re-entry to the connections.

The insulation supplier shall furnish technical data to document design and performance to these requirements and functional testing of the complete insulation system in accordance with ANSI/IEEE C37.20.



Chapter 9
Accessories & Tools

Splicing Accessories 310
Termination Accessories 313
Conduit & Cable Sealing 316
Torches & Heat Guns 318
Tools 320
Cable Cleats 324

HV Ground Braid

FEATURES

- HV-Braid is a tinned copper braid

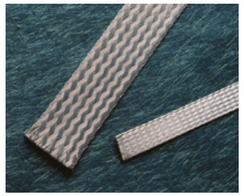
APPLICATIONS

- Solder-blocked for use with HVS and HVT kits

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Breaid Size (AWG)	Length of Moisture Blocked Braid	Standard Pack (pcs/box)
HV-BRAID-8-1520	#8	60 (1524)	3
HV-BRAID-6-1520	#6	60 (1524)	3
HV-BRAID-4-1520	#4	60 (1524)	3

Order shielding mesh based on braid size.



HVS-MESH Shielding Mesh

APPLICATIONS

- Used in conjunction with high-voltage ground braids

BENEFITS

- Provides shield continuity when splicing shielded power cable

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM), FEET (M)

Catalog Number	Width	Length	Standard Pack (rolls/box)
HVS-MESH-2-5000	2 (51)	*16 (4.8)*	4

ADDITIONAL PRODUCT INFORMATION

- Order shielding mesh based on cable diameter and length of cable to be covered
- To apply shielding mesh, half-lap around cable



JGK-MS Rejacketing Sleeves

FEATURES

- Kits are RUS accepted and have been tested to meet the 10 kA/10 cycles or 15 kA/15 cycle fault current test requirements
- Wraparound rejacketing sleeve has been water-seal tested to the applicable sections of ANSI C 119.1

APPLICATIONS

- Each kit contains a constant-force ground clamp, a solder-blocked ground braid for external grounding, and a sealant to encapsulate and seal the ground connector

BENEFITS

- Heat-shrinkable JGK-MS kits provide complete environmental sealing with a wraparound, adhesive-lined rejacketing sleeve
- JGK-MS kit addresses the RUS recommendation to externally ground the jacketed cable neutrals at least four times per mile to limit shield standing voltage, to avoid accidental shock, and to provide multiple parallel return paths for line-to-ground faults

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Nominal Use Range (AWG/kcmil)			Standard Pack (rolls/box)
	15 kV	25 kV	35 kV	
JGK-MS-1	#4-4/0	#1-1/0		10 kA, 10 cycles
JGK-MS-2	250-1000	1/0-750	1/0-500	15 kA, 15 cycles
JGK-MS-3	1000-2000	750-1750	500-1500	15 kA, 15 cycles

ADDITIONAL PRODUCT INFORMATION

- Standard package: 3 kits/box
- Related test report: EDR-5242



P63 Cable Preperation Kits

APPLICATIONS

- Can be used with all TE cable accessories

BENEFITS

- Use P63 kits to clean and abrade cable insulation

PRODUCT SELECTION INFORMATION

Catalog Number	Standard Pack (kits/box)
P63	12

ADDITIONAL PRODUCT INFORMATION

- One kit contains six solvent wipes, six dry wipes and three strips of abrasive paper
- For splices, the number of prep kits vary depending upon size of cable and type of splice. For terminations, one prep kit will clean three phases (one 3/C termination or three 1/C terminations)
- Solvent wipes contain PT Technologies type PF cleaner



HVS-GC Grounding Clamps

APPLICATIONS

- Used for securing ground braides when splicing or terminating power cables.

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Use Range	Standard Pack (pcs/box)
HVS-GC-0.5	0.5-1.0 (13-25)	100
HVS-GC-1.0	1.0-2.0 (25-51)	100
HVS-GC-1.5	1.5-3.0 (38-76)	50
EPPA-034-A	0.5-0.8 (12-20)	
EPPA-034-E	0.7-1.1 (17-29)	
EPPA-034-F	1.2-1.5 (30-39)	
EPPA-034-G	1.6-2.4 (40-60)	
EPPA-034-H	2.0-3.0 (50-75)	
EPPA-034-L	2.3-3.3 (57-85)	

ADDITIONAL PRODUCT INFORMATION

- Order ground clamps based on cable diameter.
- Confirm size with use range



HVS-LR

FEATURES

- Combines the strength and durability of TE Raychem MBSM wraparound sleeve with an effective oil-resistant sealing mastic

APPLICATIONS

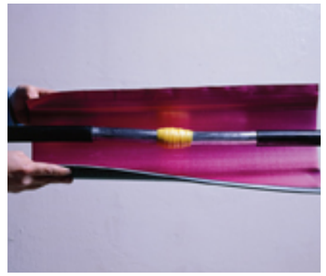
- Offers a simple method of repairing lead sheath damage on paper-insulated, lead-covered (PILC) cables

BENEFITS

- Tested to and meets the following load-cycling and pressure test requirements indicated in the chart below

PRODUCT PERFORMANCE

Test	Result
Current cycling at 110˚C conductor temperature for 90 cycles (5 hours on, 3 hours off)	Pass
Applied pressure	15 psi
Maximum continuous conductor temperature	110˚C



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Nominal Sleeve Length	Application Use Range (min - max)
HVS-LR-75/15-600	24 (600)	0.65-2.65 (17-67)
HVS-LR-75/15-1200	48 (1200)	0.65-2.65 (17-67)
HVS-LR-160/42-600	24 (600)	1.80-5.70 (46-144)
HVS-LR-160/42-1200	48 (1200)	1.80-5.70 (46-144)
HVS-LR-200/50-600	24 (600)	2.15-7.10 (55-180)
HVS-LR-200/50-1200	48 (1200)	2.15-7.10 (55-180)

ADDITIONAL PRODUCT INFORMATION

- Be sure to look at both the cable jacket diameter and the lead sheath diameter when selecting the HVS-LR kit
- Standard package: 3 kits/box
- Related test report: EDR-5243

BRKT-SS Cable Mounting Brackets

FEATURES

- The brackets are constructed of stainless steel and include all hardware
- Includes a mounting bracket and rubber pad

APPLICATIONS

- Suitable for use on all types of cables
- For use with terminations or other applications where cable mounts are needed

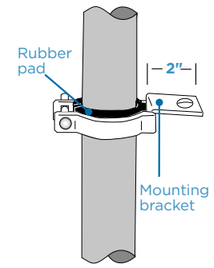
BENEFITS

- BRKT-SS cable mounting brackets are versatile and may be used outdoors

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number		Cable Range O.D. Range
90°	**Straight**	
BRKT-1-SS	**BRKT-1-SS-SPCL**	0.80-1.25 (20-32)
BRKT-2-SS	**BRKT-2-SS-SPCL**	1.10-1.50 (28-38)
BRKT-3-SS	**BRKT-3-SS-SPCL**	1.45-1.95 (37-50)
BRKT-4-SS	**BRKT-4-SS-SPCL**	1.80-2.40 (46-61)





ADDITIONAL PRODUCT INFORMATION

- Standard package: 1 bracket/box
- Order brackets based on cable diameter, confirm size with use range
- Related test report: NCTR-99-065

EAKT-1520 Mounting Kits

FEATURES

- Includes a galvanized steel T-bracket, three insulators for poletop mounting, and installation instructions
- The insulators are lightweight and shatterproof. They combine a strong and flexible polymeric core with TE's proven high-voltage, nontracking material.

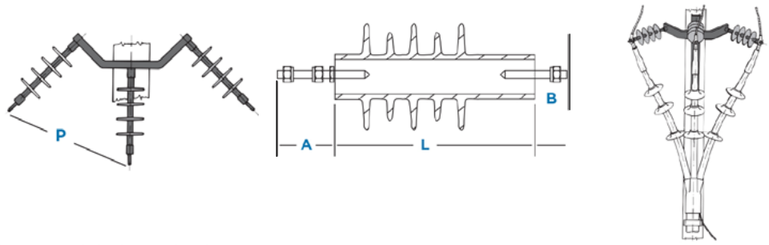
APPLICATIONS

- Offers a mounting bracket and support insulators for poletop mounting of TE high voltage terminations
- Used with TE Raychem high-voltage outdoor termination kits (15–35 kV)

BENEFITS

- The bracket is dip galvanized to meet outdoor requirements (BS 729)





PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Voltage Class (kV)	Insulator Dimensions				No. of Skirts	Min Creepage Length	Mechanical Capabilities Cantilever	Torque M12 (ft. lb)
		P	L	A	B				
EAKT 1521	15	12.5 (310)	7.6 (195)	2.6 (65)	1.4 (35)	5	15.4 (390)	184	37
EAKT 1523	25	17.0 (430)	12.0 (305)	2.6 (65)	1.4 (35)	9	26.0 (660)	184	37
EAKT 1524	35	22.0 (560)	15.0 (380)	2.6 (65)	1.4 (35)	11	43.3 (1100)	516	37

ADDITIONAL PRODUCT INFORMATION

• Standard package: 1 kit/box
• Related test reports: UVR-8150, UVR-8166

MOD-S Skirts



APPLICATIONS

- Used with TE Raychem high voltage termination kits for outdoor applications

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Cable Insulation Diameter (min-max)	Std. Pack (skirts/box)
MOD-S1-314-Skirts	0.35-0.55 (9-14)	6
MOD-S2-325-Skirts	0.60-1.25 (15-32)	6
MOD-S3-336-Skirts	0.85-1.75 (22-44)	6
MOD-S4-346-Skirts	1.15-2.45 (29-62)	6
MOD-S5-357-Skirts	2.00-3.30 (50-84)	6

ADDITIONAL PRODUCT INFORMATION

• TE outdoor termination kits (-S) include appropriate number of skirts for the particular voltage
• See the table below for the number of skirts needed at each voltage

Voltage	HVT Number of Skirts	HVT-Z Number of Skirts
5-8 kV	1	0
15 kV	2	1
25 kV	3	4
35 kV	4	4

RDSS Duct Sealing Systems

FEATURES

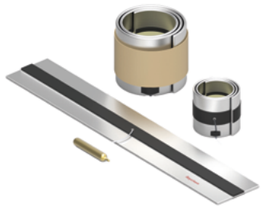
- Consists of an inflatable, sealed bladder of flexible, metallic laminate material, which has pre-installed, high-temperature sealant strips on both sides.
- The bladder is first inflated to 45 psi (three-bar) internal pressure, and then presses the sealant against the duct wall and onto the substrate.
- The bag uses a self-sealing gel material to seal the filling hole when the filling tube is removed

APPLICATIONS

- Designed for use in conjunction with plastic, concrete, or steel ducts to provide a watertight duct seal.
- Seals cable ducts and helps to prevent flooding in cable vaults, access manholes, substation basements, and customer feeds. It can be installed while the water is flowing—see photograph.

BENEFITS

- For applications with three or more cables, an RDSS-CLIP is inserted between the cables.
- The RDSS-CLIP is a high-temperature mastic mounted on an installation stick. It seals the area between the cables when used in conjunction with the RDSS inflatable bladder.
- Acceptable to use on medium voltage cables including unjacketed concentric neutral.



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Duct Inner Diameter	Number of Cables in Duct/ Max Cable Bundle Diameter					
	0, 1, or 2 Cables		3 or 4 Cables		5, 6, 7 Cables	
1.25 (32)	RDSS-45	0.5 (13)	RDSS-45, 1 RDSS-CLIP-45	0.3 (8)	RDSS-45, 2 RDSS-CLIP-45	0.1 (3)
1.50 (38)	RDSS-45	1.0 (25)	RDSS-45, 1 RDSS-CLIP-45	0.8 (20)	RDSS-45, 2 RDSS-CLIP-45	0.6 (15)
1.75 (45)	RDSS-45	1.3 (32)	RDSS-45, 1 RDSS-CLIP-45	1.05 (27)	RDSS-45, 2 RDSS-CLIP-45	0.9 (22)
2.00 (50)	RDSS-60	1.2 (30)	RDSS-60, 1 RDSS-CLIP-75	1.0 (25)	RDSS-60, 2 RDSS-CLIP-75	0.8 (20)
2.25 (57)	RDSS-60	1.6 (41)	RDSS-75, 1 RDSS-CLIP-75	1.4 (36)	RDSS-75, 2 RDSS-CLIP-75	1.2 (31)
2.50 (64)	RDSS-75	1.5 (38)	RDSS-75, 1 RDSS-CLIP-75	1.3 (33)	RDSS-75, 2 RDSS-CLIP-75	1.1 (28)
2.75 (70)	RDSS-75	1.8 (46)	RDSS-75, 1 RDSS-CLIP-75	1.6 (41)	RDSS-75, 2 RDSS-CLIP-75	1.4 (36)
3.00 (75)	RDSS-75	2.2 (56)	RDSS-75, 1 RDSS-CLIP-75	2.0 (50)	RDSS-75, 2 RDSS-CLIP-75	1.8 (46)
3.25 (83)	RDSS-100	2.2 (56)	RDSS-100, 1 RDSS-CLIP-100	2.0 (50)	RDSS-100, 2 RDSS-CLIP-100	1.8 (46)
3.50 (89)	RDSS-100	2.6 (66)	RDSS-100, 1 RDSS-CLIP-100	2.4 (61)	RDSS-100, 2 RDSS-CLIP-100	2.2 (56)
3.75 (95)	RDSS-100	2.9 (74)	RDSS-100, 1 RDSS-CLIP-100	2.7 (69)	RDSS-100, 2 RDSS-CLIP-100	2.5 (64)
4.00 (100)	RDSS-100	3.2 (80)	RDSS-100, 1 RDSS-CLIP-100	3.0 (75)	RDSS-100, 2 RDSS-CLIP-100	2.8 (70)
4.25 (108)	RDSS-100	3.5 (89)	RDSS-100, 1 RDSS-CLIP-100	3.3 (85)	RDSS-100, 2 RDSS-CLIP-100	3.1 (79)
4.50 (114)	RDSS-100	3.5 (89)	RDSS-100, 1 RDSS-CLIP-100	3.3 (85)	RDSS-100, 2 RDSS-CLIP-100	3.1 (79)
4.75 (121)	RDSS-125	3.8 (97)	RDSS-125, 1 RDSS-CLIP-125	3.6 (92)	RDSS-125, 2 RDSS-CLIP-125	3.4 (87)
5.00 (125)	RDSS-125	4.1 (104)	RDSS-125, 1 RDSS-CLIP-125	3.9 (98)	RDSS-125, 2 RDSS-CLIP-125	3.7 (93)
5.25 (133)	RDSS-150†	4.3 (109)	RDSS-150†, 1 RDSS-CLIP-150	4.1 (104)	RDSS-150†, 2 RDSS-CLIP-150	3.9 (98)
5.50 (140)	RDSS-150†	4.7 (120)	RDSS-150†, 1 RDSS-CLIP-150	4.5 (114)	RDSS-150†, 2 RDSS-CLIP-150	4.3 (109)
5.75 (146)	RDSS-150†	4.9 (124)	RDSS-150†, 1 RDSS-CLIP-150	4.7 (119)	RDSS-150†, 2 RDSS-CLIP-150	4.5 (114)
6.00 (150)	RDSS-150†	5.1 (129)	RDSS-150†, 1 RDSS-CLIP-150	4.9 (124)	RDSS-150†, 2 RDSS-CLIP-150	4.7 (120)
6.25 (159)	RDSS-150†	5.4 (138)	RDSS-150†, 1 RDSS-CLIP-150	5.2 (133)	RDSS-150†, 2 RDSS-CLIP-150	5.0 (125)

6.50-8.00 (165-210) Ducts in this range require the use of RDSS-AD-210 adapter. Contact your TE representative for application information.
†See Ordering information.

ADDITIONAL PRODUCT INFORMATION

- In ducts where the cable/cable bundle is less than 2.4" (60mm) in diameter, an RDSS-AT/AP-150 device must be used in conjunction with the RDSS-150.
- Standard package: RDSS = 10 kits/box or 3 kits/box
  RDSS-CLIP = 5 clips/box
  RDSS-TOOLS = 1 each/box, CO2 cartridges = 10 each/box,
  RDSS-AT/AP-150 = 1 each/box
- Related test report: EDR-5253
- S-1278 sealant, used in RDSS-CLIPS, is available separately.
- For proper inflation do not exceed the maximum cable bundle diameter (MCBD). To determine MCBD, use a diameter tape or contact your TE representative for assistance.

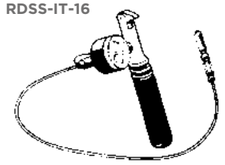
RDSS SEALING CLIP

RDSS duct sealing clips are to be used if the duct is occupied by more than two cables. The maximum number of cables sealed with one RDSS-CLIP is four. If more cables are to be sealed, one extra clip is needed for every three additional cables. Check with your TE Connectivity representative for applications with more than seven cables.

Catalog Number	Kit Used With
RDSS-CLIP-45	RDSS-45
RDSS-CLIP-75	RDSS-75 and RDSS-60
RDSS-CLIP-100	RDSS-100
RDSS-CLIP-125	RDSS-125
RDSS-CLIP-150	RDSS-150

RDSS INSTALLATION TOOLS

RDSS-IT-16



RDSS duct seals can be installed with a variety of inflation tools having the capability of inflating RDSS to 45±3 psi (3 bar) of pressure. The tools TE offers are summarized in the table below. The tool will only accept 16-gr CO2 gas cylinders (listed below).

Catalog Number	Description	Standard Pack
RDSS-IT-16	Inflation tool designed with an ON/OFF switch and an automatic pressure-monitoring system. The required CO2 gas cylinders (E7512-0160) must be ordered separately.	1 tool/box
E7512-0160	16-gr CO2 gas cylinders for the RDSS-IT-16 tool. Each gas cylinder inflates approximately four RDSS-100 duct seals.	10 cylinders/box
E7512-0220	Tube snap assembly. Spare part for RDSS-IT-16 inflation tool.	1 each/box
E7512-0240	Spare pressure gauge assembly for RDSS-IT-16 inflation tool.	1 each/box
E7512-0260	Spare delivery pipe for RDSS-IT-16 inflation tool.	1 each box
S-1278-3 x 61 x 7620	RDSS sealant roll (for smaller diameter wires)	1 25-ft roll/box
RDSS-AT/AP-150	For use with the RDSS-150 in duct 5.25" or larger 1 each/box with cable/cable bundles less than 2.4" (60 mm) in diameter.	1 each/box
RDSS-AD-210	Adapter for ducts 6.5 - 8.0" (165 - 210 mm) diameter.	4 each/box
E4540-1250	RDSS-LUBE for installation of RDSS.	25 each/box

Torches

These clean-burning, efficient, heat shrinking torches are recommended for shrinking high voltage products through low voltage products.



Primus-Sievert Siever-Matic Torch Materials

FH-3366-97-HANDLE
- Siever-Matic S auto ignite, auto shut-off torch handle
- Ergonomic design ensures comfortable operation
- Adjustable output
- Piezo ignition



FH-AD-3061-23-PS-REGULATOR
- Works with torch handle FH-3366-97-PS-HANDLE above
- Adjustable from 14-57psi
- Fitting POL, UNF 9/16 inch LH
- Requires torch hose AD-1432 or AD-1434



FH-AD-3347-91-PS-BURN-1
- Works with torch handle FH-3366-97-PS-HANDLE above
- Recommended especially for low voltage and general purpose products
- Tip diameter 1.0 inch 20,000BTU/hour



FH-AD-3341-47-PS-BURN1.5
- Works with torch handle FH-3366-97-PS-HANDLE above
- Recommended especially for low voltage products and high voltage terminations and splices
- Tip diameter 1.5 inch 40,000BTU/hour



FH-AD-3348-91-PS-BURN-2
- Works with torch handle FH-3366-97-PS-HANDLE above
- Recommended especially for Raysulate products
- Tip diameter 2.0 inch 90,000BTU/hour

Torch Accessories and Torch Kits



AD-LPG-REG W/GAUGE-GR430
- Propane tank regulator with gauge (0–30 psi)
- Can also be used with Primus-Sievert or BullFinch products

AD-1432-ACD10FT-LPG-HOSE
- 10-foot LPG hose



AD-1434-ACD30FT-LPG-HOSE
- 30-foot LPG hose

AD-1460-ACD-HEAT-SHLDGPA
- 12 x 40 pad woven of heat-resistant fabric with corner grommets
- Protects adjacent components from torch heat during installation of heat-shrinkable products in confined areas



AD-1563-ACD-ADAPTER
- Valve to standard hose
- For use with FH-2618A-1 propane torch if disposable cylinders are not used

AD-3015-04
- Adapts Siever-Matic S FH-2649-PS-KIT or FH2629 for use with disposable 14.1 oz propane cylinders
- Includes 4-foot hose and regulator preset at 28 psi

Torch Kits



FH-2618A-1
- Light, portable propane torch for installing low voltage products and smaller, conductor-sized, high-voltage (up to 15 kV) accessories
- Includes hose, handle assembly, and regulator for disposable propane cylinder
- Operates from disposable 14.1 oz. propane cylinders
- Output: Approximately 20,000 BTU/hour
- Handle and torch head not available separately
- Regulator and hose assembly is product AD-3015-04

FH-2629-Kit
- Includes (AD-1432) 10 foot hose, AD-LPG-REG W/GAUGE-GR430, and (FH-2629-TORCH-ASSY) torch handle and tip



FH-2640-PS-KIT
- Primus-Sievert torch kit for use with disposable propane bottles
- Includes (FH-3366-97-PS-HANDLE, FH-AD-3341-91-PS-BURN1.5, & AD-3015-04)

FH-2649-PS-KIT
- Seiver-Matic S auto ignite, auto shut-off torch system
- Recommended especially for Raysulate products and can be used with all products
- Includes ergonomic handle, 30 foot hose, adjustable regulator, and large burner (3348-91); all in a canvas carrying bag
- Output: Approximately 90,000 BTU/hour
- Smaller burner and adapter for disposable bottles available. Includes: FH-3366-97-PS-HANDLE, FH-AD-3348-91-PS-BURN-2, FH-AD-3061-13-PS-REGULAT, AD-1434-ACD30FT-LPG-HOSE, and a carrying bag

Splicing Tools



EXRM-1004 - Insulation Removal Tool (PN 2476965-1)
- Description – hand tool for making ring cuts on cable jackets and EPR insulation.
- Length = 7.5 inches
- Ring cut range - .50-2.00 inches

EXRM-0607 - Cable Splice Knife
- Special purpose short blade
- Comfortable full-size handle
- Finest cuttlery steel, tough and carefully tempered to hold its edge

Shear Bolt Tooling



Ordering Information
Catalog Number T25446-000



IT-1000-019 - Installation tool for mechanical connectors
This tool avoids the cable cores from being over bend during installation of mechanical connectors Application diameter range: .59"-2.36" (15mm-60mm). Length of handle: 8.07" (205mm)

Impact Wrench Accessories
Catalog Number J68898-000

Cable Cutters



1490489-1
- Suitable for copper or aluminum, solid or stranded to 350 MCM
- Ratchet mechanism keeps handle force low
- Handles lock together for safety/storage
- Compact design for easy fit into tight places
- Quick-release lever for easy take-up
- Ideal for cutting cable up to 2/0
- Also cuts coax cable up to RG-9



607453-2 1
- Great for copper and aluminum cable up to 1.5" diameter
- Light weight tubular steel handles with vinyl hand grips
- Fixed and moving blade made from high grade alloy steel
- Fast advance button to minimize required motion
- Combines light weight and ratcheted mechanical advantage in its circular cutting motion
- Weight 3.27 Lb [1.49 Kg]
- Not for steel or ACSR cable



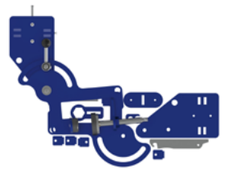
734045-1
- Solid and stranded copper and aluminium cables
- Solid Cu 185 mm^2
- Solid Al 185 mm^2
- Stranded Cu / Al Ø52
- Hi Flex Cu Ø52

1-1579002-8
- Solid and stranded copper and aluminium cables (no ASCR)
- Solid Cu 480 mm^2
- Solid Al 480 mm^2
- Stranded Cu / Al Ø54



KMS-K-INT
- Cable Sheath cutter

Cable Hand Clamp



Cable Hand - Vice - DP 70BVC
- Ergonomic tool for cable preparation and accessory installation.
- Cable size Ranges from #2 AWG to 1000 kcmil.

Alroc Cable Preparation Tooling



PG Series with PG2MV - PG3MV - PG4MV
Plier for medium voltage cable outer sheath

PRODUCT INFORMATION

Catalog number	Diameter inches (mm)	Tool capacity inches (mm)		Dimensions inches (mm)		
		Circular cutting thickness capacity	Longitudinal cutting thickness capacity	Length	Width	Height
PG2MV/C079L079	0.827 - 1.378 (21 - 35)	0.079 (2)	0.079 (2)	9.4 (240.00)	3.3 (85.00)	3.2 (80.00)
PG3MV/C039L070	1.024 - 2.047 (26 - 52)	0.039 (0.99)	0.07 (1.78)	10.4 (265.00)	3.7 (95.00)	3.2 (80.00)
PG3MV/C079L070	1.024 - 2.047 (26 - 52)	0.079 (2)	0.07 (1.78)	9.4 (240.00)	3.3 (85.00)	3.2 (80.00)
PG3MV/C110L130	1.024 - 2.047 (26 - 52)	0.110 (2.8)	0.130 (3.3)	10.4 (265.00)	3.7 (95.00)	3.2 (80.00)
PG4MV/C110L130	1.850 - 2.953 (47 - 75)	0.110 (2.8)	0.130 (3.3)	11.8 (300.00)	4.3 (110.00)	4.1 (105.00)



CWB/18-60
Tool to remove bonded semiconductor with chamfer on its cutback

PRODUCT INFORMATION

Catalog number	Diameter inches (mm)	Tool capacity inches (mm)			Dimensions inches (mm)		
		Thickness capacity	Angle of the chamfer on the semiconductor	Remaining length of the semiconductor	Length	Width	Height
CWB/18-60	0.709 - 2.362 (18-60)	0.043 (1.1)	8º	0,984-1,181-1,575 (25-30-40)	9.3 (235.00)	4.9 (125.00)	3.5 (90.00)
CWB/18-60-FEP	0.709 - 2.362 (18-60)	0.07 (1.1)	13º	0,984-1,181-1,575 (25-30-40)	9.3 (235.00)	4.9 (125.00)	3.5 (90.00)
CWB/18-60-MVS	0.709 - 2.362 (18-60)	0.043 (1.1)	13º	With MVS Stop	9.3 (235.00)	4.9 (125.00)	3.5 (90.00)



CWE/0_5-2
Tool to remove the peelable semiconductor for medium voltage cable

PRODUCT INFORMATION

Catalog number	Diameter inches (mm)	Tool capacity inches (mm)		Dimensions inches (mm)		
		Max scoring depth	Remaining length of the semiconductor	Length	Width	Height
CWE/0_5-2	0.551 - 1.969 (14-50)	0.055 (1.4)	0.394 (10)	5.9 (150.00)	3.2 (80.00)	1.9 (48.00)

Alroc Cable Preparation Tooling



MF3/40 & MF3/60 Series
Multifunction tool for outer sheath, peelable semiconductor and thick insulation

PRODUCT INFORMATION

Catalog number	Diameter inches (mm)	Tool capacity inches (mm)			Dimensions inches (mm)		
		Pelable semicon thickness capacity	Insulation thickness capacity	Stylus Included	Length	Width	Height
MF3/40-SR-USA	0.630 - 1.575 (16 - 40)	0.015 - 0.059 (0.4 - 1.5)	0.433 (11)	Straight	12.0 (305.00)	3.9 (100.00)	6.5 (165.00)
MF3/40-SRC-USA	0.630 - 1.575 (16 - 40)	0.015 - 0.059 (0.4 - 1.5)	0.433 (11)	Chamfered	12.0 (305.00)	3.9 (100.00)	6.5 (165.00)
MF3/60-SR-USA	0.630 - 2.283 (16 - 58)	0.015 - 0.059 (0.4 - 1.5)	0.433 (11)	Straight	12.0 (305.00)	4.5 (115.00)	6.5 (165.00)
MF3/60-SRC-USA	0.630 - 2.283 (16 - 58)	0.015 - 0.059 (0.4 - 1.5)	0.433 (11)	Chamfered	12.0 (305.00)	4.5 (115.00)	6.5 (165.00)



MVS
Stop for tools

PRODUCT INFORMATION

Catalog number	Diameter inches (mm)	Rolling zone	Dimensions inches (mm)		
			Length	Width	Height
MVS	0.709 - 2.362 (18 - 60)	No	3.9 (100.00)	1.6 (40.00)	3.9 (100.00)



DSP
Tool to remove the peelable semiconductor

PRODUCT INFORMATION

Catalog number	Diameter inches (mm)	Tool capacity inches (mm)	Dimensions inches (mm)		
		Type of semiconductor	Length	Width	Height
DSP	0.394 - 3.150) (10 - 80)	Smooth peelable or ribbed	4.3 (110.00)	1.4 (35.00)	1.4 (35.00)

Cable Cleats

Protect your assets from damage and increase the safety of your personnel. Our cable cleats are robust and durable to provide strong mechanical performance for highly reliable protection

FEATURES

- UV stabilized, halogen free, polymeric flame retardant V0 material
- High resistance to electromechanical forces
- Strong mechanical performance
- Interlocking EPDM molded inserts version for increased asset protection
- Operating Temperature: 40˚C to +120˚C (40˚F to +248˚F)

APPLICATIONS

- Routing of Electrical cables in LV, MV and HV applications such as Data Center Power Systems, Electrical Substations, Onshore and Offshore Wind Energy, Solar Energy, Underground Cable Networks

BENEFITS

- Strong performance with maximum cable protection thanks to the polymeric flame-retardant V0 material and robust design.

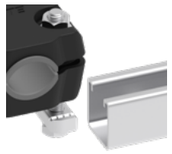




SINGLE CABLE CLEATS IN APPLICATION

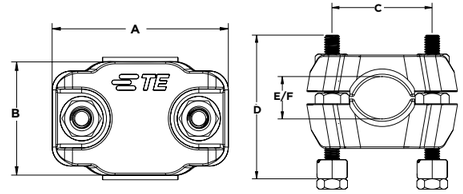


TREFOIL CABLE CLEATS IN APPLICATION

STACKABLE CONFIGURATIONS Thanks to our Flat Surface Design			
	STACKED SINGLE CABLE CLEATS	**STACKED DUAL CABLE CLEATS**	**STACKED TREFOIL CABLE CLEATS**
MOUNTING OPTIONS For More Installation Flexibility			
	FLAT MOUNT	**STRUT NUT**	**CENTER MOUNT**
PROTECTION OPTIONS For Increased Asset Protection			
	EPDM MOLDED INSERTS: absorb vibration and lock into position.	**STAINLESS-STEEL HARDWARE:** offers high corrosion resistance.	**ROBUST DESIGN FOR HIGH PROTECTION**

Single Cable Cleats





PRODUCT SELECTION FOR NON-STACKED VERSION - DIMENSIONS IN MM (INCHES)

Catalog Number	Min Cable E	Max Cable F	Min Cable E	Max Cable F	Length A	Depth B	Bolt Hole Center C	Max Installed Height D	Screw Size
	With EPDM inserts*		Without EPDM inserts						
CC15-26	ø15 (0.59)	ø26 (1.02)	ø19 (0.75)	ø30 (1.18)	87 (3.42)	55 (2.16)	56 (2.20)	53 (2.09)	M10
CC26-38	ø26 (1.02)	ø38 (1.5)	ø27 (1.06)	ø42 (1.65)	96 (3.78)	60 (2.36)	64 (2.52)	70 (2.76)	M12
CC38-50	ø38 (1.5)	ø50 (1.97)	ø39 (1.53)	ø54 (2.12)	114 (4.49)	60 (2.36)	80 (3.15)	85 (3.35)	M12
CC50-75	ø50 (1.97)	ø75 (2.95)	ø51 (2.00)	ø79 (3.11)	136 (5.35)	65 (2.56)	100 (3.93)	115 (4.53	M12
CC75-100	ø75 (2.95)	ø100 (3.93)	ø76 (2.99)	ø104 (4.09)	164 (6.45)	70 (2.76)	126 (4.96)	150 (5.90)	M12
CC100-135	ø100 (3.93)	ø135 (5.31)	ø101 (3.97)	ø139 (5.47)	200 (7.87)	80 (3.15)	160 (6.30)	190 (7.48)	M12
CC135-175	ø135 (5.31)	ø175 (6.88)	ø139 (5.47)	ø179 (7.04)	266 (10.47)	91 (3.58)	217 (8.54)	237 (9.33)	M16
CC175-220	ø175 (6.88)	ø220 (8.66)	ø179 (7.04)	ø224 (8.82)	313 (12.32)	102 (4.01)	261 (10.28)	299 (11.77)	M16

**Versions -INS, -FM, -SN, and -CM include EPDM inserts*

PRODUCT SELECTION FOR STACKED VERSION - DIMENSIONS IN MM (INCHES)

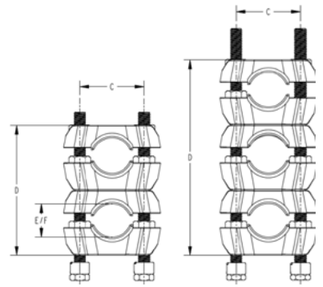
Catalog Number	Min Cable E	Max Cable F	Length A	Depth B	Bolt Hole Center C	Max Installed Height D -DOUB	Max Installed Height D -TRIP	Screw Size
	With EPDM inserts*							
CC15-26	ø15 (0.59)	ø26 (1.02)	87 (3.42)	55 (2.16)	56 (2.20)	106 (4.17)	159 (6.25)	M10
CC26-38	ø26 (1.02)	ø38 (1.5)	96 (3.78)	60 (2.36)	64 (2.52)	140 (5.51)	210 (8.27)	M12
CC38-50	ø38 (1.5)	ø50 (1.97)	114 (4.49)	60 (2.36)	80 (3.15)	170 (6.69)	255 (10.04)	M12
CC50-75	ø50 (1.97)	ø75 (2.95)	136 (5.35)	65 (2.56)	100 (3.93)	230 (9.06	345 (13.58	M12
CC75-100	ø75 (2.95)	ø100 (3.93)	164 (6.45)	70 (2.76)	126 (4.96)	300 (11.81)	450 (17.72)	M12
CC100-135	ø100 (3.93)	ø135 (5.31)	200 (7.87)	80 (3.15)	160 (6.30)	380 (14.96)	570 (22.44)	M12
CC135-175	ø135 (5.31)	ø175 (6.88)	266 (10.47)	91 (3.58)	217 (8.54)	474 (18.66)	711 (27.99)	M16
CC175-220	ø175 (6.88)	ø220 (8.66)	313 (12.32)	102 (4.01)	261 (10.28)	598 (23.54)	897 (35.31)	M16

ORDERING INFORMATION

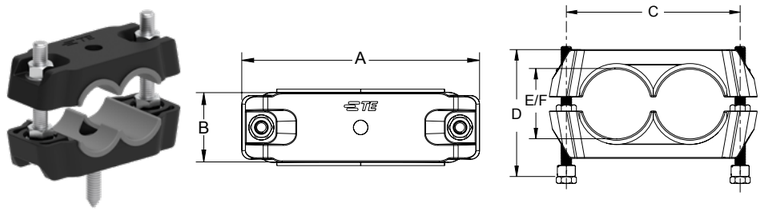
Example: CC26-38-FM is a flat mounting hardware version of CC26-38 including EPDM inserts

Mounting Options
CC15-26
CC26-38
CC38-50
CC50-75
CC75-100
CC100-135
CC135-175
CC175-220

Mounting Options	
-	Cleat bodies only (without EPDM inserts)
INS	with EPDM inserts (no mounting hardware)
FM	Flat Mount with EPDM inserts
SN	Strut Nut with EPDM inserts
CM	Center Mount with EPDM inserts



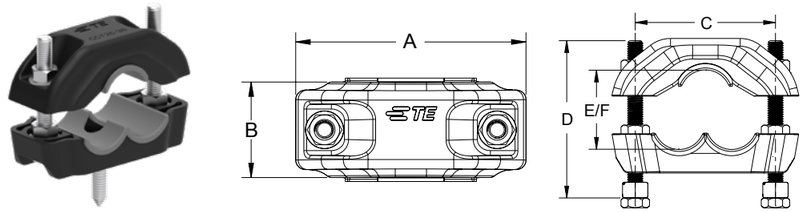
Dual Cable Cleats



PRODUCT SELECTION INFORMATION FOR NON-STACKED - DIMENSIONS IN MM (INCHES)

Catalog Number	Available Mounting Option	Length A	Depth B	Bolt Hole Center C	Max Installed Height D	Min Cable E	Min Cable F
CCD15-26-INS	Cable Cleat with Inserts	143 (5.63)	60 (2.36)	107 (4.21)	75 (2.95)	ø15 (0.59)	ø26 (1.02)
CCD15-26-SN	Strut Nut						
CCD15-26-FM	Flat Mount						
CCD15-26-CM	Center Mount						
CCD26-38	Cable Cleat Only	143 (5.63)	60 (2.36)	107 (4.21)	-	ø30 (1.18)	ø42 (1.65)
CCD26-38-INS	Cable Cleat with Inserts	143 (5.63)	60 (2.36)	107 (4.21)	75 (2.95)	ø26 (1.02)	ø38 (1.50)
CCD26-38-SN	Strut Nut						
CCD26-38-SN-M10	Strut Nut M10						
CCD26-38-FM	Flat Mount						
CCD26-38-CM	Center Mount						
CCD38-50	Cable Cleat Only	173 (6.81)	60 (2.36)	139 (5.47)	-	ø42 (1.65)	ø54 (2.12)
CCD38-50-INS	Cable Cleat with Inserts	173 (6.81)	60 (2.36)	139 (5.47)	90 (3.54)	ø38 (1.5)	ø50 (1.97)
CCD38-50-SN	Strut Nut						
CCD38-50-FM	Flat Mount						
CCD38-50-CM	Center Mount						
CCD50-63	Cable Cleat Only	199 (7.83)	65 (2.56)	163 (6.42)	-	ø54 (2.12)	ø67 (2.63)
CCD50-63-INS	Cable Cleat with Inserts	199 (7.83)	65 (2.56)	163 (6.42)	105 (4.13)	ø50 (1.97)	ø63 (2.48)
CCD50-63-SN	Strut Nut						
CCD50-63-FM	Flat Mount						
CCD50-63-CM	Center Mount						
CCD63-75	Cable Cleat Only	223 (8.78)	65 (2.56)	187 (7.36)	-	ø67 (2.63)	ø79 (3.11)
CCD63-75-INS	Cable Cleat with Inserts	223 (8.78)	65 (2.56)	187 (7.36)	120 (4.72)	ø63 (2.48)	ø75 (2.95)
CCD63-75-SN	Strut Nut						
CCD63-75-FM	Flat Mount						
CCD63-75-CM	Center Mount						

Trefoil Cable Cleats



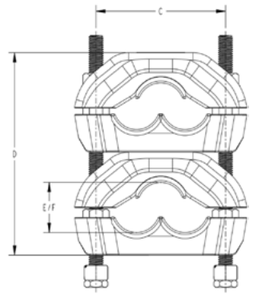
PRODUCT SELECTION FOR NON-STACKED VERSION - DIMENSIONS IN MM (INCHES)

Catalog Number	Min Cable E	Max Cable F	Min Cable E	Max Cable F	Length A	Depth B	Bolt Hole Center C	Max Installed Height D	Screw Size
	With EPDM inserts*		Without EPDM inserts						
CCT15-26	ø15 (0.59)	ø26 (1.02)	ø19 (0.74)	ø30 (1.18)	117 (4.61)	55 (2.16)	81 (3.19)	87 (3.43)	M10
CCT26-38	ø26 (1.02)	ø38 (1.5)	ø27 (1.06)	ø42 (1.65)	143 (5.63)	60 (2.36)	107 (4.21)	115 (4.53)	M12
CCT38-50	ø38 (1.5)	ø50 (1.97)	ø39 (1.53)	ø54 (2.12)	173 (6.81)	60 (2.36)	139 (5.47)	140 (5.51)	M12
CCT50-63	ø50 (1.97)	ø63 (2.48)	ø54 (2.12)	ø67 (2.63)	199 (7.83)	65 (2.56)	163 (6.42)	160 (5.90)	M12
CCT63-75	ø63 (2.48)	ø75 (2.95)	ø67 (2.63)	ø79 (3.11)	223 (8.78)	65 (2.56)	187 (7.36)	170 (6.69)	M12
CCT75-89	ø75 (2.95)	ø89 (3.50)	ø79 (3.11)	ø93 (3.66)	261 (10.28)	70 (2.76)	221 (8.69)	221 (8.70)	M12
CCT89-104	ø89 (3.50)	ø104 (4.09)	ø93 (3.66)	ø108 (4.25)	308 (12.13)	75 (2.95)	258 (10.16)	253 (9.96)	M16
CCT104-120	ø104 (4.09)	ø120 (4.72)	ø108 (4.25)	ø124 (4.88)	339 (13.35)	80 (3.15)	290 (11.42)	287 (11.3)	M16

Versions -INS, -FM, -SN, and -CM include EPDM inserts

PRODUCT SELECTION FOR STACKED VERSION - DIMENSIONS IN MM (INCHES)

Catalog Number	Min Cable E	Max Cable F	Length A	Depth B	Bolt Hole Center C	Max Installed Height D -DOUB	Screw Size
	With EPDM inserts*						
CCT15-26	ø15 (0.59)	ø26 (1.02)	117 (4.61)	55 (2.16)	81 (3.19)	174 (6.85)	M10
CCT26-38	ø26 (1.02)	ø38 (1.5)	143 (5.63)	60 (2.36)	107 (4.21)	230 (9.05)	M12
CCT38-50	ø38 (1.5)	ø50 (1.97)	173 (6.81)	60 (2.36)	139 (5.47)	280 (11.02)	M12
CCT50-63	ø50 (1.97)	ø63 (2.48)	199 (7.83)	65 (2.56)	163 (6.42)	320 (12.60)	M12
CCT63-75	ø63 (2.48)	ø75 (2.95)	223 (8.78)	65 (2.56)	187 (7.36)	340 (13.39)	M12
CCT75-89	ø75 (2.95)	ø89 (3.50)	261 (10.28)	70 (2.76)	221 (8.69)	442 (17.40)	M12
CCT89-104	ø89 (3.50)	ø104 (4.09)	308 (12.13)	75 (2.95)	258 (10.16)	506 (19.92)	M16
CCT104-120	ø104 (4.09)	ø120 (4.72)	339 (13.35)	80 (3.15)	290 (11.42)	574 (22.59)	M16



ORDERING INFORMATION

Example: CCT26-38-FM is a flat mounting hardware version of CCT26-38 including EPDM inserts

Mounting Options
CCT15-26
CCT26-38
CCT38-50
CCT50-63
CCT63-75
CCT75-89
CCT89-104
CCT104-120

Mounting Options	
-	Cleat bodies only (without EPDM inserts)
INS	with EPDM inserts (no mounting hardware)
FM	Flat Mount with EPDM inserts
SN	Strut Nut with EPDM inserts
CM	Center Mount with EPDM inserts



Chapter 10
Applications & Technical Specifications

Cable Type 330
Low Voltage Tubing & Wraparound Sleeves 339
Splices 343
Terminations 348
Busbar/Wildlife Protection 353

1/C Power Cable (Up to 1000V)



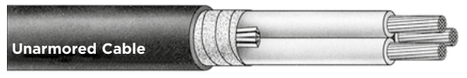
Application(s)	Product(s)	Heat Shrink	Cold Applied
• Sealed in-line splices • Terminal lug seals • Insulation • Jacket repair	WCSM FCSM	● ●	
• Sealed in-line splices • Insulation • Jacket repair • Terminal lug seals • UF underground feeder cable splice	MWTM RNF-100 GelWrap closure sleeve GILS closure RVS	● ●	● ●
• Submersible secondary BUS connectors	GelWrap UF closure sleeve GelPort connector		● ●
• Sealed motor connections • 2- or 3-wire stub splices	MCK MBSM GelCap SL splice cover GWRS	● ●	● ●
• Insulation and jacket repair • General wraparound sealing	CRSM MBSM GelWrap splice cover GWRS	● ●	● ●
• Wraparound, sealed cable • Tap splices	CRSM-CT GHFC MW GHFC GTAP	●	●
• End seals for storage and pulling • Sealing of live ends (up to 1000V)	ESC RVC	●	●
• Wire and cable marking • Labels • Hardware and Software	Identification Solutions		
• Installation of heat shrink products	Propane torches Heat guns		
• Sealing of uncoated tubing	Sealing mastics		
• Duct sealing	RDSS		
• Airport lighting kit	ALK	●	
• Cable breakout boots • Network protector sealing	CBR CBR-NPB	● ●	
• Cabinet feed through seals	CFTS	●	
• Cable prep kit	P-63		●

1/C Nonshielded Power Cable (5 kV)



Application(s)	Product(s)	Heat Shrink	Cold Applied
• Indoor terminations (in enclosures) • Outdoor (weather-exposed) terminations	HVT-50	●	
• In-line splices	HVS-500	●	
• Sealed motor connections • 2 wire pigtail splices	MCK-5 GelCap 8-motor connection	●	●

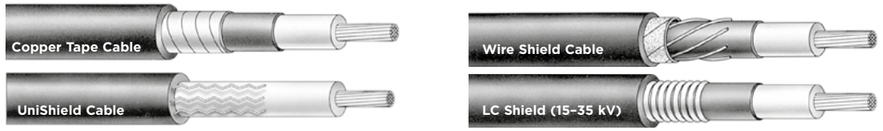
3/C Nonshielded Power Cables (5 kV)





Application(s)	Product(s)	Heat Shrink	Cold Applied
• 3/C indoor terminations (in enclosures) • 3/C outdoor (weather-exposed) terminations	HVT-50 MOD-3-HVT	● ●	
• Terminations	MOD-3-CST CST		● ●
• 3/C in-line splices - no armor	HVS-3-500 HVS-3/C mod kits	● ●	
• 3/C in-line splices - armored	HVSA-3-500 HVSA mod kits	● ●	
• Sealed motor connections • 2 wire pigtail splices	MCK-5 GelCap 8-motor connection	●	●

1/C Shielded Power Cable (5-69 kV)



Application(s)	Product(s)	Heat Shrink	Cold Applied
• Indoor heat shrinkable terminations for copper tape, wire shield, and UniShield cable (in enclosures)	HVT-80-G (5/8 kV)	●	
	HVT-150-G (15 kV)	●	
	HVT-250-G (25 kV)	●	
	HVT-350-G (35 kV)	●	
	EHVT-460-G (46 kV)	●	
	EHVT-690-G (69 kV)	●	
	GHVT-690-G (69 kV)	●	
• Indoor heat shrink terminations with built in stress control	HVT-Z-80-G/SG (5/8 kV)	●	
	HVT-Z-150-G (15 kV)	●	
	HVT-Z-250/350-G (35 kV)	●	
• Indoor cold-applied terminations (5-15 kV) for copper tape, wire shield and UniShield cable (in enclosures)	TFT-150R-G (5/8 kV)		●
	TFT-E-G (5-15 kV)		●
	TFT-P-80R (5/8 kV)		●
	CSTI-150G		●
• Indoor heat shrinkable terminations LC-shield cable (in enclosures) (15-35 kV)	HVT-150-LC (15 kV)	●	
	HVT-250-LC (25 kV)	●	
	HVT-350-LC (35 kV)	●	
• Outdoor heat shrinkable terminations for copper tape, wire shield, and UniShield cable (weather-exposed)	HVT-80-G/SG (5/8 kV)	●	
	HVT-150-SG (15 kV)	●	
	HVT-250-SG (25 kV)	●	
	HVT-350-SG (35 kV)	●	
• Outdoor heat shrink terminations with built in stress control, for copper tape, wire shield, and UniShield cable (weather exposed)	HVT-Z-80-SG (5/8 kV)	●	
	HVT-Z-150-SG (15 kV)	●	
	HVT-Z-250/350-SG (25 kV)	●	
	EHVT-460-SG (46 kV)	●	
	EHVT-690-SG (69 kV)	●	
	GHVT-690-SSG	●	
• Outdoor heat shrinkable terminations for LC-shield cable (weather exposed) 15-35 kV	HVT-150-SLC (15 kV)	●	
	HVT-250-SLC (25 kV)	●	
	HVT-350-SLC (35 kV)	●	
• Outdoor cold applied terminations, for copper tape, wire shield, and UniShield cable (weather exposed) (15-35 kV)	TFT-150R-SG (15 kV)		●
	TFT-250R-SG (25 kV)		●
	TFT-350R-SG (35 kV)		●
	TFT-150E-SG (15 kV)		●
	TFT-250E-SG (15 kV)		●
	TFT-350E-SG (15 kV)		●
	TFT-150E-SLC (15 kV)		●
	TFT-250E-SLC (15 kV)		●
	TFT-350E-SLC (15 kV)		●
	CSTO-150G		●
	CSTO-280G		●
• In-line splices for copper tape, wire shield, and UniShield cable	HVS-820S (5/8 kV)	●	
	HVS-C-1520S (15 kV)	●	
	HVS-1520S (15 kV)	●	
	HVS-1550S (15 kV)	●	
	HVS-2520S (25 kV)	●	
	HVS-3520S (35 kV)	●	
	EHVS-6920 (49/69 kV)	●	
• In-line splices for LC shield cable (15-35 kV)	HVS-1530-LC (15 kV)	●	
	HVS-2530-LC (25 kV)	●	
	HVS-3530-LC (35 kV)	●	
• In-line splices for copper tape, wire shield, Unishield, flat strap and LC shielded cable (15-35 kV)	CSJA-152X (15 kV)		●
	CSJA-282X (25/28 kV)		●
	CSJA-352X (35 kV)		●
• Wye splice • H-tap splice	HVSY-1520S (15 kV only) HVSH-Mod (15 kV only)	● ●	
• Sealing of live ends	HVES-1520D (15 kV)	●	
	HVES-2520D (25 kV)	●	
• Sealed motor connections • 2 wire pigtail splices	MCK-5 (5/8 kV)	●	
	GelCap 8 motor connection		●



Application(s)	Product(s)	Heat Shrink	Cold Applied
• 3/C indoor terminations (in enclosures)	HVT-80-G (5/8 kV)	●	
	HVT-150-G (15 kV)	●	
	HVT-250-G (25 kV)	●	
	HVT-350-G (35 kV)	●	
	HVT-Z-80-G/SG	●	
	HVT-Z-150-G	●	
	HVT-Z-250/350-G in conjunction with MOD-3-HVT	●	
	HVT-80-SG (5/8 kV)	●	
	CSTI-150G (15 kV)		●
	CSTI-280G (28 kV)		●
	MOD-3-CST (28 kV)		●
• 3/C outdoor terminations (weather-exposed)	HVT-Z-80-G/SG	●	
	HVT-150-SG (15 kV)	●	
	HVT-Z-150-SG	●	
	HVT-250-SG (25 kV)	●	
	HVT-350-SG (35 kV)	●	
	HVT-250/350-SG in conjunction with MOD-3-HVT	●	
	HVS-3-820S (5/8 kV)	●	
	CSTI-150G (15 kV)		●
	CSTI-280G (28 kV)		●
	MOD-3-CST (28 kV)		●
• 3/C in-line splices - no armor	HVS-3-1520S (15 kV)	●	
	HVS-3-2520S (25 kV)	●	
	HVS-3/C (5-35 kV)	●	
	HVSA-3-820S (5/8 kV)	●	
• 3/C in-line splices - armored	HVSA-3-1520S (15 kV)	●	
	HVSA (5-35 kV)	●	
	MCK-5 (5/8 kV)	●	
	CSJA-3-1520-ARMR		●
	CSJA-3-2820-ARMR		●
	CSJA-3-3520-ARMR		●
• Sealed motor connections • 2 wire pigtail splices	GelCap 8 motor connection		●

1/C Unjacketed & Jacketed URD Power Cable (15-35 kV)





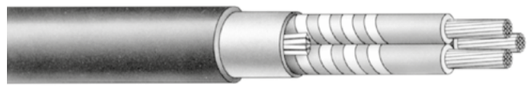
Application(s)	Product(s)	Heat Shrink	Cold Applied
• Indoor heat shrinkable unjacketed or jacketed terminations (in enclosures)	HVT-150-J (15 kV)	●	
	HVT-250-J (25 kV)	●	
	HVT-350-J (35 kV)	●	
• Indoor cold applied terminations (15-35 kV)	TFT-150-E (15 kV)		●
	TFT-250-E (25 kV)		●
	TFT-350-E (35 kV)		●
	CSTI-150J (15 kV)		●
	CSTI-280J (28 kV)		●
• Outdoor heat shrinkable unjacketed or jacketed terminations (weather-exposed)	HVT-150-SJ (15 kV)	●	
	HVT-250-SJ (25 kV)	●	
	HVT-350-SJ (35 kV)	●	
• Outdoor cold applied terminations (15 - 35 kV)	TFT-150-E (15 kV)		●
	TFT-250-E (25 kV)		●
	TFT-350-E (35 kV)		●
• Unjacketed in-line splices	HVS-1510S (15 kV)	●	
	HVS-C-1510S-J (15 kV)	●	
	HVS-2510E (25 kV)	●	
	HVS-2510E-J (25 kV)	●	
	HVS-3510S (35 kV)	●	
	HVS-3510S-J (25 kV)	●	
• Jacketed in-line splices	HVS-1510S-J (15 kV)	●	
	HVS-C-1510S-J (15 kV)	●	
	HVS-2510E-J (25 kV)	●	
	HVS-3510S-J (35 kV)	●	
	CSJG-151X (15 kV)		●
	CSJG-281X (25/28 kV)		●
	CSJG-351X (35 kV)		●
	CSJA-JCN/EG-1510 (15kV)		●
	CSJA-JCN/EG-2810 (25 kV)		●
	CSJA-JCN/EG-3510 (35 kV)		●
• Unjacketed repair splices	HVS-1510E-R (15 kV)	●	
	HVS-2510E-R (25 kV)	●	
	HVS-3510S-R (35 kV)	●	
• Jacketed repair splices	HVS-3510S-R (35 kV)	●	
	HVS-3510S-RJ (35 kV)	●	
	HVS-1510E-RJ (15 kV)	●	
	HVS-2510E-RJ (25 kV)	●	
• Sealing of live ends	HVES-1520D (15 kV)	●	
	HVES-2520D (25 kV)	●	
• Jacket/elbow sealing	ESA	●	
	RVS-SK		●
	GelWrap ES Splice Closure		●
	CES		●
• Jacketed cable grounding kits	JGK-MS (15-35 kV)	●	



Paper-Insulated, Lead-Covered (PILC) Cable/
Varnished Cambric-Insulated, Lead-Covered (VCLC) Cable

Application(s)	Product(s)	Heat Shrink	Cold Applied
• 1/C PILC indoor/outdoor terminations	HVT-1590-G/SG (15 kV)	●	
• 1/C PILC-to-PILC splices • 1/C PILC-to-poly transition splices	HVS-1580D (15 kV	●	
	HVS-2580E (25 kV)	●	
	HVS-3580D (35 kV)	●	
	CATJ-1580 (15 kV)		●
	CATJ-2880 (28 kV)		●
• 1/C PILC-to-poly transition “reducer” splices	HVSR-1580 (15 kV)	●	
	HVSR-2580E (25 kV)	●	
• Wye splices (PILC-to-PILC splices or PILC-to-poly transition splices)	HVSY-1580D (15 kV only)	●	
• H-tap splices	HVSH-1580 MOD (15 kV)	●	
• Sealing of live ends	HVES-1520D (15 kV)	●	
	HVES-2520D (25 kV)	●	
• 1/C PILC elbow adapter	HVE-1590 (15 kV) Adapter for 1/C PILC elbows	●	
• Lead repair kit for PILC cables	HVS-LR	●	

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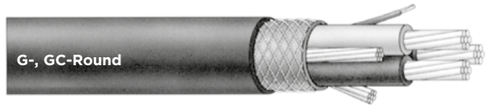


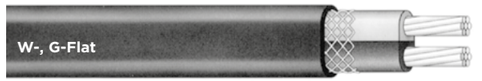
Paper-Insulated, Lead-Covered (PILC) Cable/ Varnished Cambric-Insulated Lead-Covered (VCLC) Cable

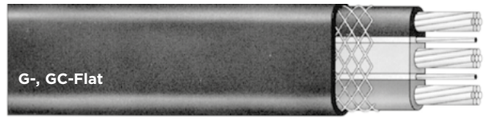
	Application(s)	Product(s)	Heat Shrink	Cold Applied
	• 3/C PILC indoor/outdoor terminations	HVT-3-1590-G/SG (15 kV)	●	
	• 3/C PILC to 3/C PILC splices	HVS-3-1590S (shorty–15 kV) HVS-3-1590 (15 kV) HVS-3-2590 (25 kV)	● ● ●	
	• 3/C PILC to three 1/C poly trifurcating transition splices • 3/C PILC to 3/C poly • 3/C PILC to 3/C poly armor	HVS-T-1580S (15 kV) HVS-T-2580D (25 kV) HVS-T-3580S (25 kV) HVS-3-1580S (15 kV) HVSA-3-1580S (15 kV)	● ● ● ● ●	
	• 3/C PILC to three 1/C poly trifurcating transition “reducer” splices	HVSR-T-1580 (15 kV) HVSR-T-2580E (25 kV)	● ●	
	• 3/C PILC to three 1/C PILC trifurcating splices	HVS-T-1590S (15 kV)	●	
	• Sealing of live ends	HVES-3-1590 (15 kV) HVES-3-2590 (25 kV)	● ●	
	• Lead repair kit	HVS-LR	●	

Flexible Cable (Up to 2 kV)









	Application(s)	Product(s)	Heat Shrink	Cold Applied
	• Sealed, in-line splices • Multiconductor splices	LV-MSK	●	
	• General wraparound sealing	MRS	●	
	• Cable jacket repair	CRPS		

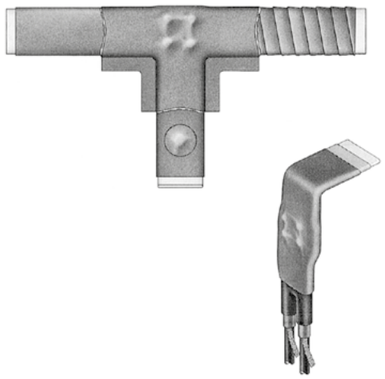
Flexible Cable (5-25 kV)





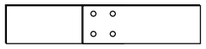
	Application(s)	Product	Heat Shrink	Cold Applied
	• Indoor terminations (in enclosures) • Outdoor (weather-exposed) terminations (5-25 kV)	HVT-M	●	
	• Sealed, in-line 3/C splices (5-8 kV)	HV-MSK	●	
	• Insulation (2 kV) and jacket repair • General wraparound sealing	MRS	●	
	• Cable jacket repair	CRPS		

Bus Insulation Configuration

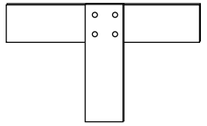




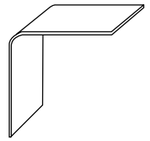
Straight Bus Runs



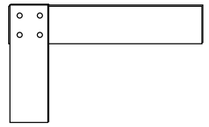
Bolted Bus Connections



Tee Connections



Bends and Edgewise Elbows



Flat Elbow Connections

	Application(s)	Product(s)
	• Bus insulation- slide-on access required	LVIT BPTM/BBIT
	• Bus insulation- slide-on access not required	LVBT HVBT
	• Field-fabricated insulating covers	HVIS

Low-Voltage Tubing and Wraparound Sleeves

General Purpose Cable Accessories (1000 V)
TE offers a complete line of Raychem brand general purpose heat shrinkable and cold applied power cable accessories that consistently provide outstanding mechanical protection, complete moisture sealing, and excellent electrical insulation for a broad range of low voltage applications.

Heat Shrink Products
TE Raychem invented heat-shrinkable products in 1959 and the Raychem brand contiunes to be the world leader in heat shrink technology and design. Our heat shrink products continue to be upgraded and improved to provide the best performance and value possible.

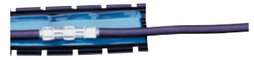
Rugged Mechanical Protection
The tough, abrasion-resistant, cross-linked polyolefin construction of general-purpose products provides mechanical protection equal to the cable jacket. In addition, the one-piece solid protective layer cannot unravel or slip off.

Watertight Seals
Most heat shrinkable products are coated with a high-performance adhesive that melts and flows when heated, forming a durable bond that seals out water and dirt.

General purpose sealants are also available for use with uncoated tubings and other moisture sealing applications.

Superior Electrical Insulation
Heat shrinkable products not only conform tightly to the connection, but they are also pre-engineered to shrink consistently to the required insulation thickness.

Cold Applied Products
Cold applied products offer superior sealing and electrical insulation. Our revolutionary PowerGel sealant provides the best and quickest cold applied seal. By combining the properties of solids and liquids, PowerGel sealant conforms to intricate shapes to completely seal out water and contaminants.











Material Properties

Test Method	Test Method	WCSM Heavy Wall	FCSM Heavy Wall	MWTM Medium Wall	CRSM Wrap-Around
Physical					
Tensile strength	ASTM D 412	1750 psi min.	1750 psi min.	2000 psi min.	2450 psi min.
Ultimate elongation	ASTM D 412	350% min.	350% min.	350% min.	350% min.
Accelerated aging (168 hrs at 150°±2°C)	ASTM D 2671				
Tensile strength	ASTM D 412	1750 psi min.	1600 psi min.	2000 psi min.	2000 psi min.
Ultimate elongation	ASTM D 412	350% min.	200% min.	300% min.	300% min.
Low-temperature flexibility (4 hrs. at temp. indicated)	ASTM D 2671	No cracking (–55°C)	No cracking (–40°C)	No cracking (–40°C)	No cracking (–40°C)
Flammability	ASTM D 2671		(60 sec max.)		
Electrical					
Dielectric strength (at 0.04 inch)	ASTM D 149 (at 0.10 inch)	430 V/mil min. (at 0.04 inch)	330 V/mil min.	500 V/mil min. (at 0.04 inch)	500 V/mil min.
Volume resistivity ohm-cm min.	ASTM D 257 ohm-cm min.	1×10^{12} ohm-cm min.	1×10^{13} ohm-cm min.	1×10^{12} ohm-cm min.	1×10^{12}
Chemical					
Resistance to liquids	ASTM D 543	●	●	●	●
Tensile strength	ASTM D 412	1450 psi min.	1600 psi min.	2000 psi min.	2000 psi min.
Ultimate elongation	ASTM D 412	300% min.	300% min.	300% min.	300% min.
Corrosive effect (16 hours at 150°±2°C)	ASTM D 2671	No corrosion			
Fungus resistance	ASTM G 21	Pass rating 1	Pass rating 1	Pass rating 1	Pass rating 1
Technical Specifications					
ANSI C119.1-1986		●	●		●
UL 486D-1986		●			
UL Standard 224					
CSA 22.2		●			
Western Underground Guide 2.5		●			
MIL-I-23053/15, Class 1 & 2					
Flame-retardant per IEEE 383, ICEA-S-19-81			●		

**Flame-Retardant*
Note: Blank space indicates that property was not measured during product qualification.

Material Properties

Physical	Test Method	MCK	ESC	CBR
Tensile strength	ASTM D 412	1450 psi min.	1750 psi min.	1500 psi min.
Ultimate elongation	ASTM D 412	300% min.	200% min.	300% min.
Accelerated aging (168 hours at temperature indicated)	ASTM D 2671			
Tensile strength	ASTM D 412	1000 psi min. (175°±2°C)	1750 psi min. (150°±2°C)	1250 psi min. (150°±2°C)
Ultimate elongation	ASTM D 412	200% min. (175°±2°C)	200% min. (150°±2°C)	100% min. (150°±2°C)
Low-temperature flexibility (4 hours at –40°±3°C)	ASTM D 2671	No cracking	No cracking	No cracking
Flammability	ASTM D 635	Self-extinguish (120 sec. max.)		
Electrical				
Dielectric strength (at .075 inch)	ASTM D 149	250 V/mil min.	200 V/mil min.	250 V/mil min.
Volume resistivity	ASTM D 257	1×10^{12} ohm-cm min.	1×10^{12} ohm-cm min.	1×10^{12} ohm-cm min.
Chemical				
Resistance to liquids, transformer oil to VDE 0370 (168 hours at 23°±2°C)	ASTM D 543			
Tensile strength	ASTM D 412	1150 psi min.	1750 psi min.	1250 psi min.
Ultimate elongation	ASTM D 412	240% min.	200% min.	240% min.
Corrosive effect(16 hours at 175°±2°C)	ASTM D 2671	No corrosion		
Resistance to fungi	ASTM G 21	Pass rating 1	Pass rating 1	Pass rating 1
Technical Specifications				
ANSI C119.1-1986		●	●	
Flame-retardant per IEEE 383, ICEA-S-19-81		●		

Note: Blank space indicates that property was not measured during product qualification.

Material Properties

Physical	Test Method	S1052	S1085	S1171	S1174	S1251
Softening point	ASTM E 28	70°C min.		140°C min.	140°C min.	
Adhesive peel strength:						
Polyethylene		1 lb/in min.	5.5 lb/in min.		5 lb/in min.	6 lb/in min.
Steel		2 lb/in min.			5 lb/in min.	
Aluminum			4.4 lb/in min.			
Copper			4.4 lb/in min.			
Low-temperature flexibility (4 hours at temperature indicated)	ASTM D 2671	No cracking (–40°C±3°C)	No cracking (–30°C±2°C)		No cracking (–40°C±3°C)	No cracking (–40°C±3°C)
Electrical						
Dielectric strength min. (0.04 inch)	ASTM D 149	300 V/mil min.	200 V/mil min.	200 V/mil min.	300 V/mil min.	300 V/mil
Volume resistivity	ASTM D 257	1×10^{12} ohm-cm min.	1×10^{12} ohm-cm min.	1×10^{12} ohm-cm min.	1×10^{12} ohm-cm min.	1×10^{12} ohm-cm min.
Tracking & erosion resistance	ASTM D 2303		No tracking or erosion to top surface or flame failure after: 1 hr at 2.00 kV 1 hr at 2.25 kV 1 hr at 2.50 kV			
Chemical						
Corrosive effect (16 hours at 121°±2°C)	ASTM D 2671	No corrosion		No corrosion	No corrosion	
Fungus resistance	ASTM G 21	Pass rating 1			Pass rating 1	

Note: Blank space indicates that property was not measured during product specification.

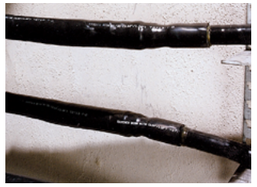
Material Properties

PowerGel Testing	Test Methods	S.I. Units	Imperial Units
Dielectric strength (4 mm/016 inch wall thickness)	40 kV/cm min.	100 V/mil min.	
Volume Resistivity	1 x 10^{12} Ohm cm min.	1 x 10^{12} Ohm cm min.	
Resistance to Liquids Chemicals: 1 N na2SO4 0,1 N NaOH; 0, 1 N NaCl; water; Ethylene Glycol	ASTM D543 modified: 10.0 cm x 1.0 cm x 0.4 cm, test bar supported on wire mesh, 24 hours immersion, IPA rinse after immersion, 24 hr. drying	No visible cracking, max. 2% weight change, 80% retention of elongation and tensile strength	No visible cracking, max. 2% weight change, 80% retention of elongation and tensile strength
Corrosive Effect	ASTM D2671	No corrosion	No corrosion
Resistance to Fungi 4.5 cm diameter x 0.4 cm thickness petridish	ISO 846	Pass rating 1 or less	Pass rating 1 or less
UV Resistance 10.0 cm x 1.0 cm x 0.4 cm est bar, UVB 313; 250 cycles (2000 hrs); 4 hours UV at 60°C then 4 hours at 50°C with condensation	ISO 4892/3	80% tensile strength retention, no visible cracking	80% tensile strength retention, no visible cracking

Splices



Polymeric wye and H-tap splices produce dependable water tight seals between the main and tap cable(s) with no taping.



Heat shrink, high-voltage splice kits install quickly and uniformly.

Superior Long-Term Performance
Even in the harshest environments,TE Raychem brand cable splices are ideal for the following direct-burial and manhole applications: copper tape, wire shield, UniShield LC-shield, PILC, and jacketed/unjacketed URD cables. The splices not only match the requirements of cable test specifications but also meet or exceed the requirements of IEEE-404. Throughout the world, TE Raychem splices are meeting the needs of industrial, utility, and mining customers with outstanding performance and reliability.

Positive Moisture Sealing and High Abrasion-Resistance
Internal moisture seals protect the cable from water that may enter the cable through a damaged jacket outside of the splice area. In addition, the adhesive-lined rejacketing sleeve provides a moisture-resistant seal that is field-tested and superior to interference fits. Underwater cyclic aging tests per ANSI C119.1-1986 and IEEE 404 specifications confirm this. In addition, the outer jacket is superior to tape in abrasion resistance and cannot unravel or fray.

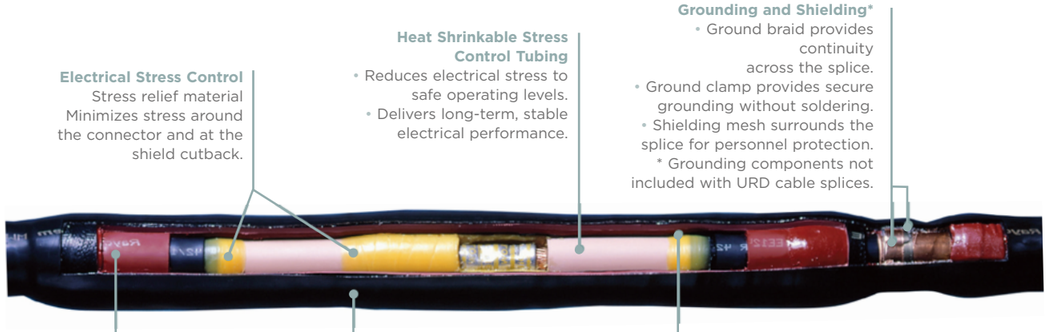
Fast, Consistent Installations
Simple heat-shrinking techniques reduce installation time and training. Pre-engineered kits help to ensure consistent performance while minimizing potential installation errors.

Unique Repair Splices
Specially designed to speed URD cable repair, TE Raychem brand URD repair splices reduce cable preparation and required excavation space, thus minimizing total repair costs. With our superior heat-shrink adhesive system, our splices reliably seal fault-deformed cables. In addition, one splice repair kit may replace two conventional splices for most repairs.

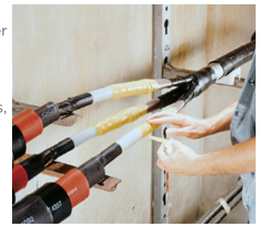
The typical TE Raychem brand splice—based on heat-shrink technology, specialized materials, and pre-engineered designs—delivers reliable performance.

A close look at one of our polymeric cable splices shows how each component draws on TE technical excellence and field experience to rebuild every function of the cable.

All cable splices must rebuild these critical cable functions:
- Electrical stress control
- Insulation and semiconductive layer
- Shielding and grounding
- Environmental and mechanical protection



Positive, Consistent Oil Stop
Unlike other oil stops, TE Connectivity unique system combines heat shrinkable, high temperature oil barrier tubing and oil blocking stress relief material (SRM) to avoid splice failures due to oil leakage.



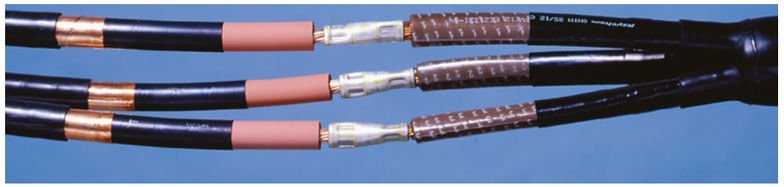
Long-Term Reliability
Both the component materials and the complete splices have undergone rigorous, long-term test programs, including pressurized load-cycling to maximum cable system overload temperatures.

Elimination of Lead Sleeve Failures
Moisture is the worst enemy of PILC cable systems. A major source of leakage problems is cracking of lead sleeves and wipes due to cable flexing or corrosion. TE's design replaces these components with heavy-duty, heat shrinkable jacketing and adhesive seals, so moisture problems are minimized.

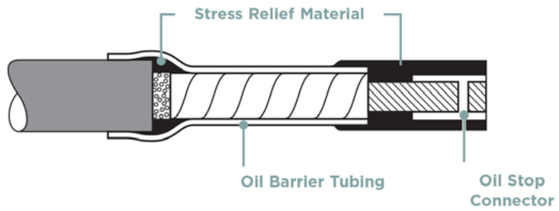
Field-Tested Performance
Since TE "converts" the PILC cable to a "polymeric equivalent," all TE's designs can then use the effective components found in our plastic cable splices. For more than a decade, these products have compiled an excellent service history in more than a million installations worldwide.

Easy, Consistent Installations
By "converting" the PILC cable to a "polymeric equivalent," these TE Raychem brand kits eliminate compound-filling and difficult lead-wiping. Also, heat-shrinking means no time-consuming insulation, stepping or penciling, hand taping, and stress cone building.

Reduced Installation and Training Time
You get on and off the job site quicker. There's no lead-wiping, no compound pouring, and no waiting for "cool downs" and "top-ups." Time and cost are drastically reduced, with users reporting installation cost savings of up to 75 percent.



To produce a simple, field-tested oil stop system, TE Raychem brand splices utilize high-temperature oil barrier tubing and oil-blocking stress relief material.

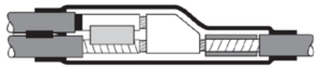


Easy to Install Wye Splices
PILC wye splices produce water-tight seals between the main and tap cable with no tedious, complex taping. The simple construction does not require lead wiping, so installation is fast and easy. These splices are versatile, accommodating both PILC-to-PILC and PILC-to-polymeric constructions.

Breakout Seal
Heat-activated sealants combine with heat-shrinkable components to produce a field-tested moisture resistant system for the critical branch breakout area.

Intercable Insulation
A soft (pliant) preformed profile conforms tightly to the cable surfaces upon shrinking. This provides insulation in the area between the main and branch (or tap) cable.

Positive Oil Stop Systems for 3/C Cables
TE provides a highly effective and easily installed oil stop system, using standard heat-shrinkable components:
- Adhesive-lined, conductive breakout
- Converts the 3/C cable into three 1/C cables
- Provides an oil- and pressure-resistant seal
- Grounds the conductive tubing to the lead sheath

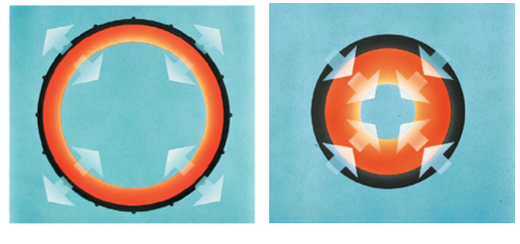


Oil Blocking Stress Relief Material
- During shrinking, the material softens and conforms around the individual conductors forming an oil-resistant seal
- Provides electrical stress relief between the insulated conductors on belted cable
- Conductive tubing
- Reshields the individual insulated conductors

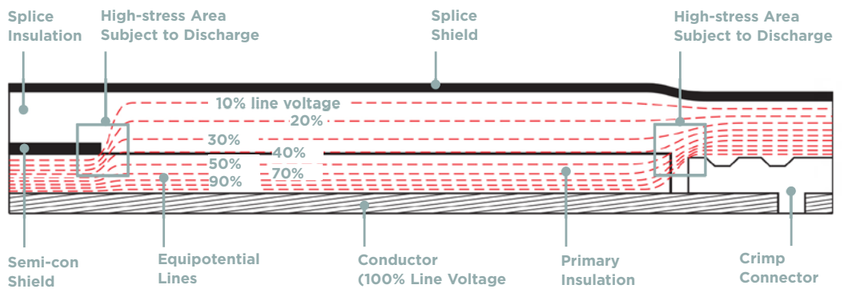
Oil Barrier Tubing
- Locks the oil in the PILC cables, converting each conductor to a polymeric equivalent

Elastomeric Technology
The elastomeric splice component is supplied in an expanded form. In this form, the heat-shrinkable outer wall holds the insulating layer at a wide diameter. Application of heat causes the outer wall to shrink, allowing the insulating layer to contract at the same time and closely fit the splice. The rubber-like characteristics of the material enable the splice to follow the thermally induced dimensional changes of the cable insulation.

The elastic memory of the material helps to ensure that the correct insulation-wall thickness is obtained for the defined application range of the component.

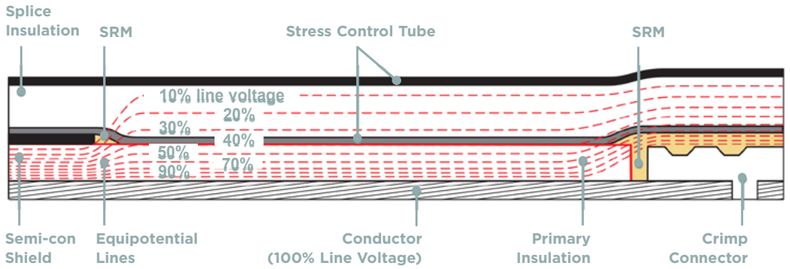


Cable Splice without Stress Control
The figure below shows a computer-simulated plot of electrical stress in a splice without stress control. Areas of high stress exist near the edge of the semi-con and connector as shown by the concentrations of equipotential lines. These high stresses must be lowered to prevent premature insulation damage and splice failures.



Cable Splice with Stress Control System
TE's stress control system controls the distribution of the electrical field in the splice. The equipotential lines are distributed uniformly, reducing the stresses within the splice to levels required for longer service life. This is achieved by the unique resistive and capacitive properties of the heat-shrinkable tubing and stress relief material (SRM).

The stress control materials reduce stress through their electrical properties rather than the geometry of the splice or correct positioning of a Faraday cage. Stress cone buildup is diminished, resulting in a slim, compact splice and significantly decreasing splice installation time.



Test and Performance Data for Polymeric and URD Splices
To help provide long-term reliability and durability, TE Raychem brand splices have been subjected to extensive testing in both the laboratory and actual field environments. Kits are factory-designed and tested to meet cable system requirements as summarized in the table below. Test levels are drawn from relevant sections of existing industry standards, including the following: IEEE 404, IEEE 593, ANSI C119.1 and ANSI C119.4, IEEE 386, AEIC CS5, AEIC CS6.

Test Description	HVS-8XX (5–8 kV)	HVS-15XX (15 kV)	HVS-25XX* (25 kV)	HVS-35XX (35 kV)	EHVS69XX (46/69 kV)
Partial discharge (min. kV) for 3 pC or less	7	13	22	30	60
AC withstand,1 min (kV)	23	35	52	69	120 (15 min)
AC withstand,5 min (kV)	21	39	65	90	N/A
AC withstand,5 hr (kV)	16	31	50	71	100 (6 hr)
DC withstand,15 min (kV)	45	75	105	140	240
Impulse withstand 1.2 x 50 μs (crest kV)	95	110	150	200	350
Water sealing properties**	Pass	Pass	Pass	Pass	

** Also meets requirements of 25/28 kV systems.*
***Refer to EDR-5101, "A Survey of the Water Sealing Properties of Raychem brand Heat Shrinkable Splices" for testing details. IEEE 404 requires testing without jacket installed for load cycling under water. All TE heat-shrink splices pass this new requirement.*

Recommended Guide Specification for Polymeric and URD Splices (5–35 kV)
Please feel free to use the following in your design specification:
Power cable splices for nonshielded or shielded solid dielectric cable and unjacketed or jacketed URD (concentric neutral) cable shall be factory-engineered kits that rebuild the primary cable insulation, shielding and grounding systems, and outer jacket equivalent to that of the original cable.

When assembled on cable, the splice shall be capable of passing the electrical test requirements of IEEE-404 and the water immersion tests of ANSI C119.1.

Splices shall be of a uniform-cross-section, heat shrinkable polymeric construction utilizing an impedance-layer stress control tube and high-dielectric-strength insulating layers.

The outer insulating layer shall be bonded to a conducting layer for shielding. The splice shall be rejacketed with a heat shrinkable adhesive-lined sleeve to provide a waterproof seal.

The splice shall accommodate a range of cable sizes and be completely independent of cable manufacturer's tolerances. Splices shall be capable of being properly installed on out-of-round cable per relevant ICEA and AEIC standards. Kits shall accommodate a range of commercially available connectors.

Splices for armored cables shall provide a means of reinstating the armor over the span of the installed splices. Wye splices shall include a sealant profile to seal the area between the branch and the main cable.

The splice manufacturer shall provide a test report demonstrating compliance with the above requirements. Splices shall be manufactured by TE or approved equivalent.

Test and Performance Data for PILC Splices
PILC splices are fully engineered to provide a long, trouble-free service life. They are factory-designed and tested to meet PILC cable system requirements, as summarized in the table below.

Test levels are drawn from relevant sections of existing industry standards, including those that follow:
- IEEE 404 (power cable splices)
- IEEE 48 (terminations)
- AEIC-1 (paper cable)
- AEIC-CS5 (XLPE cable)
- AEIC-CS6 (EPR cable)
- ANSI C119.1 (sealed insulated underground connection system)

Test and Performance Data for PILC Splices

	Voltage Class		
Electrical	**15 kV**	**25 kV**	**35 kV**
AC withstand test, 6 hours	35 kV	58 kV	80 kV
DC withstand test, 15 minutes	55 kV	75 kV	100 kV
Impulse withstand (BIL) 1.2 x 50 μs	110 kV	150 kV	200 kV
Load Cycle/Pressure			
Current load cycling[1], 2 cycles of 5 hours heating, 3 hours cooling to conductor temperature of 110°C with applied overvoltage and maximum continuous internal oil pressure; no breakdown, oil leakage	Pass	Pass	Pass
Maximum continuous internal oil pressure	15 psig	15 psig	15 psig
Maximum continuous conductor temperature	90°C	90°C	90°C
Maximum overload conductor temperature	110°C	110°C	110°C
Sealing			
Water immersion outer jacketing system	ANSI C119.1	ANSI C119.1	ANSI C119.1
Proof test on oil blocking system: TE test method—no oil diffusion	Pass	Pass	Pass

1. *Not applicable to live end seals.*
2. *Maximum continuous/emergency conductor temperature for Wye splices: 70°C.*
3. *Test methods discussed in IEEE paper 84 T&D 340-6, "The extension of heat shrinkable components for use with 1/C transition and paper cable splices," by Mackevich, et al.*

Recommended Guide Specification for PILC Splices (15–35 kV)
Please feel free to use the following in your design specification: Splices shall be factory-manufactured kits to suit the specific type and size of the cables to be spliced.

The electric field distribution in the splice shall be controlled by a heat shrinkable tubing having a complex impedance when energized with an AC voltage. A dual-wall tubing with a co-extruded outer conductive layer to form a void-free interface between the insulation and shield shall be used.

Kits shall be factory-engineered to contain all necessary materials, except connector, and provide an oil block and oil seal, electrical stress control, insulation, shielding, and environmental sealing. The kit shall allow for external grounding. Major kit components shall be heat shrinkable.

The splice insulation shall not require a lead sleeve, lead wipe, or any kind of filling.
The splice manufacturer shall provide a test report, upon request, demonstrating that the splice performance is equivalent to the cables per relevant sections of IEEE-404, AEIC-1. Splices shall be load cycled with 15 psig internal oil pressure at 2.5x rated line-to-ground voltage at 110°C emergency overload rating. Splices shall also be subjected to a voltage withstand test sequence per listed standards.

Wye splices on PILC cable shall be tested to the requirements of ANSI C119.1. The test shall demonstrate the mechanical integrity, water sealing, and electrical properties of the outer jacket system.

Splices shall be manufactured by TE or approved equivalent.

Terminations



TE proven oil-sealing technology has been used for more than 18 years in medium-voltage transition joints. This technology is now put to work in our PILC termination kits.

Reliable, Field-Proven Performance
Independent testing and field experience have repeatedly proven the long-term stability, durability, and reliability of the TE Raychem HVT system, even in highly polluted environments. The nontracking, insulating outer jacket can withstand the rigors of long-term electrical stress and surface pollution without loss of performance. The nontracking material offers the additional benefit of being maintenance free, with no need for periodic cleaning. Extensive load cycle testing verifies the long-term thermo-mechanical compatibility between the termination system and the cable.

Ease of Installation
HVT kits can be installed on all cable types without special adapters or accessories. No special tooling or connectors are required since HVT kits accept all common compression or terminal lugs. The HVT installation method also provides generous cable cutback and component positioning tolerances, further reducing installation variability. Heat-shrinking allows the kits to be easily inspected, either visually or by simple touch, to help ensure proper installation.

Always Ready for the Job–Even in Emergencies
HVT kits have an unlimited shelf life. They remain ready to use on short notice, so you have no worries about scrapping aged inventory or being caught with useless products during an emergency or on a time-critical project.

Flexible and Versatile
An HVT system may be installed upright or inverted and can bend to the same bending radius as the cable. Slim and lightweight, the system can also be mounted directly to fuse cutouts or other devices, eliminating the cost of additional supporting brackets and cross arms.

46 and 69 kV
At voltages as high as 69 kV the need for proven stress control is even more important. The materials used in our 46 and 69 kV terminations (as with all lower voltages) are suitable for severely polluted areas—and for all installation conditions, including top feed installation.

The material is designed to be resistant to impact damage from transportation or vandalism, a typical problem for heavy, inflexible porcelain products. TE Connectivity Raychem brand 46/69 kV terminations also require no compound filling which can leak over time.

Cold Applied Termination System
TFT terminations are designed for customers who want TE material technology in a cold-applied system. The cold-applied terminations also provide positive positioning of the stress control patch.

TE Raychem brand HVT system features a nontracking, insulating surface that can withstand long-term electrical stress and surface pollution.





Terminations

HVT

Shielding and Solderless Grounding (included in polymeric cable kits except URD)

Moisture Sealing
Nontracking, high-voltage sealant:
- Provides a watertight connector seal when combined with heat-shrinkable material
- Will not harden or crack

Additional Creepage for Outdoor Applications
Heat shrinkable skirts:
- Increase surface creepage distance
- Easily adapt terminations for outdoor use
- May be inverted for terminations facing downward

Electrical Stress Control and Insulation (8 kV and up)
Heat shrinkable stress control tubing:
- Reduces the electrical stress gradient at the end of the cable shield to safe operating levels
- Shrinks to fit out-of-spec cable
- Provides long-term electrical performance

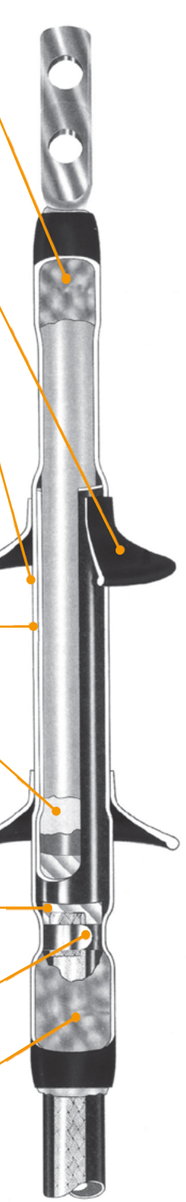
Nontracking, Heat shrinkable Outer Insulation Tubing
- Provides excellent UV stability
- Withstands polluted environments
- Is proven to withstand severe application

Stress relief material
- Minimizes stress at the shield cutback
- Applies easily, smoothing the step at the cable semi-con edge and filling any voids
- Acts as a secondary moisture seal.

Ground Braid
- Provides shield continuity

Ground Clamp
- Has a constant-force roll spring, which provides secure grounding without soldering

Moisture Sealing
- Nontracking, high-voltage sealant



TFT

Moisture Sealing
Nontracking, high-voltage sealant:
- Provides a watertight connector seal
- Will not harden or crack

Additional Creepage for Outdoor Applications
Molded skirts:
- Increase surface creepage distance

Electrical Stress Control
Metal Oxide Matrix stress control patch:
- Reduces the electrical stress gradient at the end of the cable shield to safe operating levels
- Conforms to fit out-of-spec cable
- Provides long-term electrical performance

Nontracking, Termination Body
- Provides excellent UV stability
- Withstands polluted environments
- Is proven to withstand severe applications

Moisture Sealing
- Nontracking, high-voltage sealant spring clamp and solder-block ground braid available for metallic shielded cables

HVT Testing Data
TE Raychem brand high-voltage terminations are fully qualified per IEEE-48 as Class I terminations to provide a long, trouble-free service life. Independent testing and field experience have repeatedly proven the long-term durability, reliability, and stability of the HVT system, even in highly polluted environments. TE's proven nontracking, insulating jacket can withstand the rigors of long-term electrical stress and surface pollution without loss of performance. The nontracking material is maintenance free and does not require periodic cleaning. Extensive load-cycle testing verifies the thermomechanical compatibility between the termination system and cable.

Recommended Guide Specifications
Please feel free to use one or all of the following in your design specifications:

Medium-Voltage Terminations (through 69 kV)
Shielded power cable termination kits shall be factory engineered for the application. The kits shall consist of high-permittivity, high-resistivity, heat shrinkable stress control tubing, and outer insulation tubing and skirts (outdoor applications) made from UV-stable, nontracking (per ASTM D 2303) materials. Heat-activated sealant materials to help prevent moisture ingress and contamination should also be included. Termination kits shall meet or exceed all rating requirements of IEEE-48 for Class I terminations and the test sequence prescribed by IEEE-404, including 130°C load cycling and 130°C impulse withstand.

Multi-Conductor Shielded Cable Terminations
In addition to the phase terminations, multi-conductor termination kits shall provide a heat shrinkable breakout boot, factory-coated with sealant for strain-relief and sealing purposes. Each kit shall include lengths of heat shrinkable tubing to help prevent corrosion and shifting of the shielding layers between the boot and the phase-termination installation point.

When grounding and/or ground check conductors are included, the kit includes lengths of heat shrinkable tubing and sealant material to seal each conductor from the boot to its connection point.

Nonshielded Cable Terminations (2–5 kV)
Termination kits for nonshielded power cables installed in contaminated indoor or outdoor environments are factory engineered to provide UV-stable, nontracking (per ASTM D 2303 and the Ontario Hydro accelerated tracking wheel test) exterior surfaces and complete environmental sealing for the termination area. Termination kits shall consist of heat shrinkable tubing, skirts (outdoor applications), and sealing boots (for 3/C only) supplied with heat-activated sealant materials to help prevent moisture ingress and contamination.

Product and Voltage Class 1

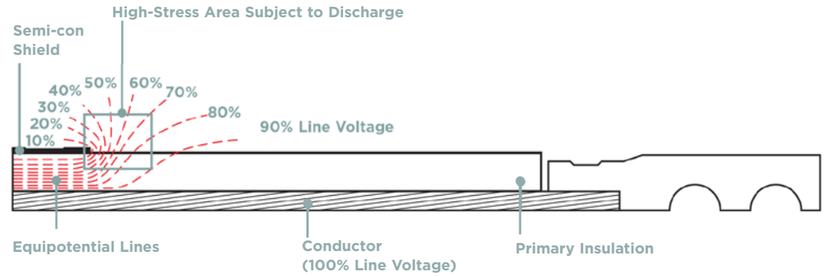
Test Description	HVT-80 (5–8 kV)	HVT-150 (15 kV)	HVT-250 (25 kV)	HVT-350 (35 kV)	EHVT-460 (46 kV)	EHVT-690 (69 kV)
AC withstand, 1 minute, (kV)	35	50	65	90	120	175
DC withstand, 15 minutes, (kV)	65	75	105	140	170	245
Partial discharge (min. kV) for 5 pC or less	9	13	21.5	30	40	60
Impulse withstand 1.2 x 50 µs, crest kV (outdoor)	95	110	150	200	250	350
Impulse withstand 1.2 x 50 µs, crest kV (indoor)	80	95	125	150	250	350
Continuous current rating	Equal to cable ampacity					
Wet withstand, 10 seconds, kV rms	30	45	60	80	100	145
Dry withstand, 6 hours, kV rms	25	35	55	75	100	120

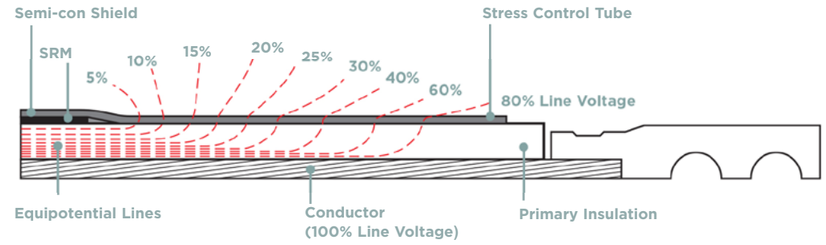
Electrical Stress Control
Shielded power cables require electrical stress control when terminated. When the insulation shield is removed from a cable, the electrical field is concentrated at the cutback point, causing high electrical stress. If the stress is great enough, it can cause the air to break down, resulting in corona. High-stress areas also cause internal discharges. Corona or internal discharges will ultimately destroy the cable insulation, causing premature failure.

Cable Termination Without Stress Control
The diagram below shows an energized cable termination without stress control. The electric field intensity is greatest where the equipotential lines (line of constant voltage) are concentrated.

Note the concentration near the edge of the semi-con shield. Stress control is required here to reduce the electrical stress below levels at which the air would break down or discharges would occur in the insulation.

Cable Termination with TE's Unique Stress Control System
With TE's stress control tube installed, the equipotential lines are spread out, distributing the electrical field and reducing the electrical stress to the cable insulation's operating level, as shown in the diagram below. This is achieved by the unique resistive and capacitive properties of the heat-shrinkable material. Note that no diameter buildup is required as in a conventional stress cone that utilizes its geometry to reduce stress.



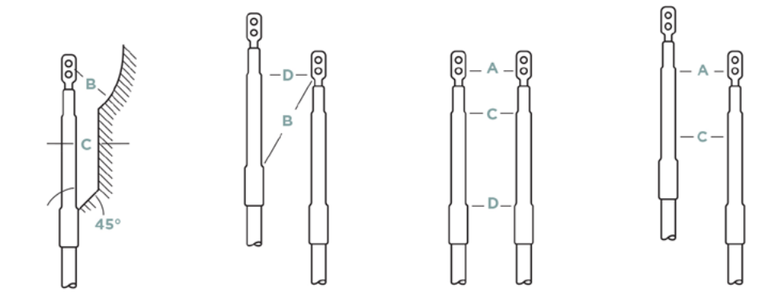


Recommended Air Clearance (Heat shrink and Cold applied Products) Phase/Phase and Phase/Ground
The stress control system provides a linear voltage distribution from the lug at high voltage to the shield termination at ground potential. If the termination is installed too close to another phase termination or grounded metal, the electric stress in the air gap will rise to a level where discharge or flashover may occur. The table and diagrams below indicate the minimum clearances needed between various termination configurations. These clearances are based on IEEE Basic Impulse Levels (BIL).

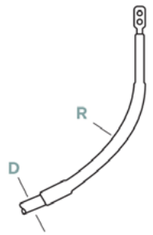
Minimum Clearance[1] (inches/millimeters)

BIL (kV)	A	B	C[2]	D
95 (5–8 kV)	6.5 (160)	3.5 (90)	1.2 (30)	0.8 (20)
110 (15 kV)	7.0 (175)	4.0 (100)	1.4 (35)	0.9 (23)
150 (25 kV)	9.0 (225)	6.0 (150)	1.6 (40)	1.0 (25)
200 (35 kV)	13.0 (325)	9.0 (225)	2.0 (50)	1.4 (35)

1 Values are based on normal operating conditions. Humid or poorly ventilated environments may require additional air clearance.
2 For skirted, outdoor terminations, the value for "C" is equal to the distance from the edge of one skirt to another or from a skirt to ground.



Phase to Ground | **Same Phase** | **Between Phases** | **Between Phases**



Bending Radius

Recommended cable bending radius TE Raychem brand terminations are as flexible as the original cable. A cable end should not be bent to a radius less than that recommended by the manufacturer.

D = Cable jacket O.D.
R = 10 x D—Minimum bending radius (consult cable manufacturer's values and check them against TE. Select the higher of the two values. Preheat cable to approximately 80°C before bending.)

TFT Testing Data
These terminations are fully qualified per IEEE-48 as Class 1 terminations to provide a long, trouble-free service life. These terminations incorporate TE material technology in a cold applied system. These terminations have an elastomeric tubing that is formulated for long-term performance in typical extreme termination environments. The non-tracking material is maintenance-free and does not require periodic cleaning.

This series of products features the latest in advanced stress control systems using Metal Oxide Matrix technology to provide superior electrical performance.

Voltage class Test description	(5-8 kV)	(15 kV)*	(25 kV)	(35 kV)
AC withstand, 1 minute, (kV)	35	50	65	90
DC withstand, 15 minutes, (kV)	65	75	105	140
Partial discharge (min. kV) for 5 pC or less	9	13	21.5	30
Impulse withstand 1.2 x 50 μs, crest kV (outdoor)	95	110	150	200
Wet withstand, 10 seconds, kV rms	30	45	60	80
Dry withstand, 6 hours, kV rms	25	35	55	75

**With or without sheds*

Busbar/Wildlife Protection



The TE Raychem Raysulate electrical insulation family of products offers easy-to-install busbar insulation systems for both the field engineer and the manufacturer. Raysulate electrical insulation products provide flashover protection against the accidental bridging of conductors commonly caused by birds and animals.

The system is ideal for both enclosed and exposed bus work and for connections in switchgear lineups, substations, and other electrical apparatus. It also permits clearance reduction in many applications.

Excellent Electrical and Thermal Performance
Raysulate electrical insulation products are manufactured from high dielectric strength, radiation-crosslinked, heat shrinkable materials. The high-voltage materials are specially formulated to provide high resistance to arcing and tracking. All high-voltage and low-voltage materials provide high-thermal endurance throughout the range of switchgear operating temperatures. They offer field-proven reliability and long service life in harsh environments. In addition, these heat shrink tubing, tape, and sheet products can be preformed and preshrunk in the customer's shop, allowing easy, quick installation in the field.

Compatibility with other Insulating Materials
All Raysulate heat shrinkable electrical insulation products are compatible with other solid switchgear insulating materials. Raysulate electrical insulating materials are not subject to stress crazing or embrittlement and are not adversely affected by common plasticizers used in conventional switchgear insulating materials.

Flame-retardant Materials
Most Raysulate heat shrinkable electrical insulating materials pass the ANSI C37.20 switchgear insulation flammability tests.

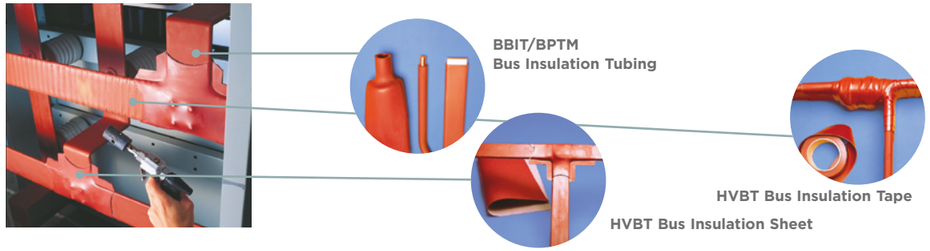
Reduced Corrosive and Toxic Fumes
Raysulate electrical insulation materials contain no chlorine compounds. This minimizes noxious and corrosive effects in case of equipment fault or fire.

For Protection, Repair, and Maintenance
Raysulate heat shrinkable electrical insulating tubes, tapes, and sheets provide a complete system for electrical repair and maintenance of enclosed or exposed buswork and for connections in switchgear and electrical equipment. They offer:

- Fast, easy installation and removal
- A flexible system to cover most conductor shapes and sizes
- Consistent, reliable installation
- Consistent electrical and thermal performance
- Proven corrosion protection
- Compatibility with conventional solid insulating materials
- Protection against flashovers

For the Electrical Equipment Manufacturers
The Raysulate system of insulation-enhancement components addresses the needs of electrical equipment manufacturers. The superior material properties and versatility of these components enhance the quality and reliability of the final product. Raysulate electrical insulating materials feature:

- Low-hazard formulation
- Flexibility
- Track resistance
- Rugged, easy installation
- Excellent electrical and thermal performance
- Unlimited shelf life
- Corrosion protection of conductor
- TE assistance and support for testing and applications





MVLC-18-A/U Overhead Line Cover

For Outdoor Equipment
TE Raychem Raysulate electrical insulation products provide a complete system of insulation enhancement for high-voltage busbars and related equipment in outdoor substations and overhead lines. The system offers:

- Easy installation in the field
- Insulation for many different shapes, including busbars, joints, tees, insulators/bushing connections
- Flashover protection against accidental bridging
- Protection of wildlife and from wildlife-induced outages
- Excellent UV and weathering resistance
- Protection against corrosion
- Protection against incidental tree branch contact



MVCC



HVCE



BCAC-IC-8D/18 Bushing Cover



BCAC-G-AR-5D/2 Lighting Arrester Cover



BISG-24

MEDIUM-VOLTAGE PRODUCTS*

TEST AND PERFORMANCE DATA

Material Properties	Test Method	Requirements	BBIT BPTM	BCIC HVIS	BCAC, HVCE-WA HVBT OLIT	HVCE	MVLC	BISG RRBB
Electrical								
Volume resistivity	ASTM D-257, IEC 93	ohm-cm min.	1.0x1013	1.0x1013	1.0x1013	1.0x1013	1x1013	1x1013
Dielectric constant	ASTM D-150, IEC 250	maximum	5.0	5.0	5.0	5.0	5.0	5.0
Dielectric strength	ASTM D-149, IEC 243	V/mil at 1.3mm min. V/mil at 1.5mm min. V/mil at 2mm min. V/mil at 2.5mm min V/mil at 3mm min.	500 450 400 350	330	330	250	550	380
Thermal								
Thermal endurance	IEEE 1-1969, IEC 216	minimum	105°C	105°C	105°C**	110°C	105˚C	
Accelerated aging for 168 hours	ISO 188	Tensile strength Ultimate elongation.	1450 psi 300%	1450 psi 300%	1450 psi. 300%	1100 psi 100%	1450 psi 25%	2450 psi
		Aging Temp	120˚C	120˚C	120˚C	120˚C	150˚C	120˚C
Chemical								
Flammability	ANSI C37.20	Pass	Pass	Pass	Pass			
Water absorption	ISO/R 62, procedure A	1% max. after 14 days at 23°C	Pass	Pass	Pass	Pass	Pass	Pass
Low-temperature flexibility	ASTM D-2671, procedure C	No cracking after 4 hr	Pass -40˚C	Pass -40˚C	Pass -40˚C	Pass -40˚C	Pass -20˚C	Pass -40˚C
Corrosion	Copper Mirror, ASTM D-2671, procedure B	Passed visual inspection after 16 hr		Pass 150°C	Pass 150°C		Pass 135°C	
Physical								
Tensile strength	ASTM D-638, ISO 37	psi. (min.)	1450<4 mm, 1150>4 mm	1450	1450	1150	1450	2450
Ultimate elongation	ASTM D-638, ISO 37	% minimum	300	300	300	300	200	25

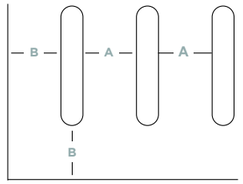
Note: Blank spaces indicate that property was not measured during product qualification.
**Each product's voltage rating will be displayed with its selection information.*
***Properties measured on backing material only. HVBT and OLIT have a 90°C maximum continuous operating temperature limit.*

Busbar Insulation Technical Data

This table indicates clearance differences for rectangular busbars without and with various Raysulate electrical insulation products. These spacings are derived from BIL, AC-withstand, DC-withstand, and discharge-extinction tests on a limited number of busbar configurations insulated with Raysulate electrical insulation products.

Due to the wide range of possible busbar geometries, these spacings should not be adopted without actual testing by the user. Sharp electrodes and unusual geometries will require wider spacings.

Note: Phase-to-phase distances are reduced more than phase-to-ground distances because it is assumed that each phase is insulated.



SELECTION INFORMATION: DIMENSIONS IN INCHES(MM)

System Voltage	BIL	Uninsulated Clearance (Indoor)		BBIT Clearance (Indoor)		BPTM, HVBT, and HVIS Clearance (Indoor)	
kV	kV	A*	B**	A*	B**	A*	B**
15	95	7.5 (190)	5.0 (125)	2.2 (55)	2.6 (65)	3.4 (85)	4.2 (105)
25	125	10.5 (265)	7.5 (190)	2.8 (70)	4.0 (100)	4.5 (115)	6.0 (150)
35	150	12.5 (320)	9.5 (240)	5.6 (140)	7.5 (190)	6.5 (165)	8.0 (200)

* Phase-to-phase
** Phase-to-ground

Recommended Guide Specification
Please feel free to use the following in your design specification:
Insulation for energized bus components and connections shall consist of tubing, tape, and sheets that are factory-engineered to meet applicable switchgear performance requirements.

All insulation components shall be fabricated from flexible, crosslinked, heat shrinkable polymeric materials formulated to provide high dielectric strength, adequate thermal endurance at bus operating temperatures, and tracking and erosion resistance.

The insulation materials shall contain no halogen compounds and be compatible with other commercial, factory-installed bus insulation materials.

Materials shall be installable at temperatures as low as –40°F. Adhesive coatings on tape and sheet products shall not adhere to metal surfaces, thus permitting easy re-entry to the connections.

The insulation supplier shall furnish technical data to document design and performance to these requirements and functional testing of the complete insulation system in accordance with ANSI/IEEE C37.20.

About TE Connectivity

TE Connectivity plc (NYSE: TEL) is a global industrial technology leader creating a safer, sustainable, productive, and connected future. Our broad range of connectivity and sensor solutions enable the distribution of power, signal and data to advance next-generation transportation, energy networks, automated factories, data centers, medical technology and more.
With more than 85,000 employees, including 9,000 engineers, working alongside customers in approximately 130 countries, TE ensures that EVERY CONNECTION COUNTS.

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