

CIRCULAR PLASTIC CONNECTORS (CPC)

CPC Series 2



The High-Density Series 2 connectors accept Size 20 DF (precision formed) and Size 20 DM (screw-machined) pin and socket contacts with a .040" [1.02mm] pin diameter, Size 20 DF contacts are available in crimp and solder versions, as well as a posted version for wrap-type and pc board applications. Maximum current carrying capability is 7.5 amperes. Many connector arrangements offer both standard and reverse mate contact loading - from 8 thru 63 positions. The smaller contact size enables more circuit positions than Series 1 connectors, making it ideal for space-constrained applications.

Circular Plastic Connectors (CPC) are rugged, cost-effective connectors that can be used to provide power input and output to and from devices. Common applications are energy management systems, power generators, material handling, agriculture equipment, battery management systems, industrial machinery, rolling stock, forklifts, welding equipment, robotics, construction equipment, power supplies, industrial scales and weighting, etc.

The use of Circular Plastic Connectors enables customers to reduce installation time, meet harsh and space saving requirements, design with high-performance materials, and speed up their go-to-market plans.

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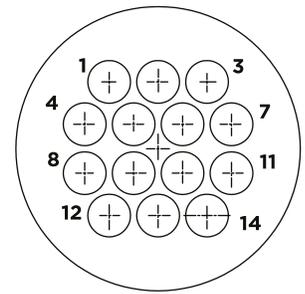
Circular Plastic Connector Selector Tool

CONNECTOR SERIES AND TYPES

Series 1 – Size 16 Contacts

Series 1 connectors permit the use of multiple combinations of signal and coaxial circuits in the same housing by accepting durable Multimate contacts. These pin and socket contacts include Type III+ and subminiature coaxial contacts, interchangeable in the same Multimate contact cavity. Type III+

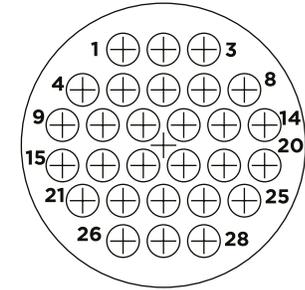
contacts (.062 [1.57] pin diameter) are capable of carrying a maximum of 13 amperes when crimped in wire. Type III solder contacts and posted contacts for pc board applications are also available. Many connector arrangements offer both standard and reverse mate contact loading – **from 4 thru 37 positions.**



Series 2 – Size 20 Contacts

Series 2 connectors accept Size 20 DF (precision formed) and Size 20 DM (screw-machined) pin and socket contacts with a .040 [1.02] pin diameter. Size 20 DF contacts are available in crimp and solder versions, as well as a posted version for wrap-

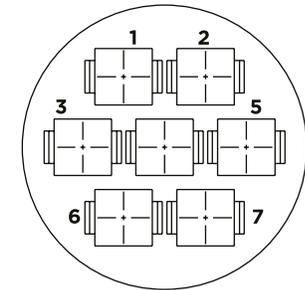
type and pc board applications. Maximum current carrying capability is 7.5 amperes. Many connector arrangements offer both standard and reverse mate contact loading – **from 8 thru 63 positions.**



Series 3 – Power Contacts

Series 3 connectors accept Type XII power contacts which can carry up to 25 amps per contact. These contacts will accommodate a wire size range of 16 to 10 AWG [1.4 to 5 mm²]. Two connector sizes are available in

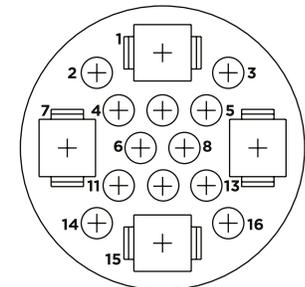
both standard and reverse mate connector arrangements **3 and 7 positions.**



Series 4 – Combination, Size 16 and Power Contacts

Series 4 connectors accept Size 16 Multimate and Type XII power contacts, combining the signal and coaxial circuit capabilities of Series 1 connectors with the power circuit capabilities of Series 3 connectors. Available in three

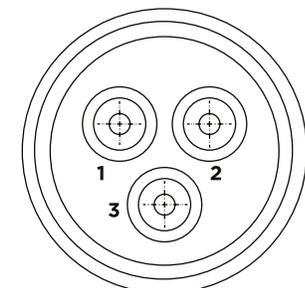
connector sizes offering power mixing combinations totaling **13, 16 and 22 positions.**



Series 5 – Power Contacts .125 POWERBAND

Series 5 connectors combine the revolutionary performance of the new AMP POWERBAND Contact, high current contact in configurations similar to the Series 3 connectors. AMP POWERBAND contacts offer the electrical performance of the best Mil Spec Size 8 screwmachined contacts with the economy and productivity of

strip-fed, precision formed contacts. Series 5 connectors are environmentally sealable to meet IEC IP 65 and IP 67 specifications. Rated at 250 VAC or VDC, 50 amperes maximum in a single contact, the connectors are available in free-hanging and panelmount applications – **one connector configuration containing three .125 POWERBAND contacts.**

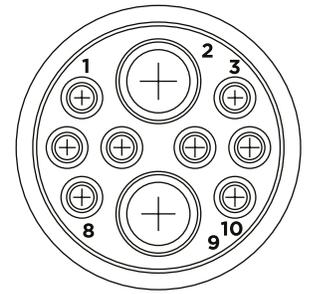


CONNECTOR SERIES AND TYPES

Series 6 – Combination, Size 16 and .125 POWERBAND Contacts

Series 6 combines the high current and environmental sealing capability of Series 5, POWERBAND contacts, and the reliability of signal carrying, low current Type III+ contacts. This combination of power and

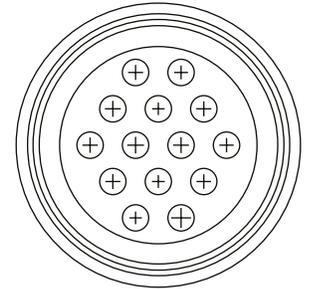
signal contacts is offered in **one connector configuration containing two .125 POWERBAND contacts and eight Type III+ signal pin and socket contacts.positions.**



MIL-C-5015 Style – Size 16 Contacts

This new addition to the AMP Circular Plastic Connector Line is specifically designed to be **intermateable with Metal-Shell size 20-14 and 18-10, MIL-C-5015 Style connector systems.** The high impact resistant plastic housing offers the advantages of light weight and lower cost than existing metal-shell connectors. In addition the connector design prevents mismatching when used

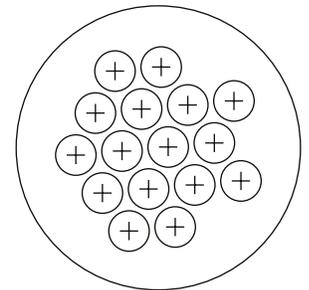
with other insert arrangements. As part of the AMP Multimate family of connectors, the MIL-C-5015 style connector offers the economies of crimp Type III+ pin and socket contacts in reel-mounted, strip-form for high volume automatic machine termination, as well as in loose piece-form for low volume, prototype or maintenance and repair.



Metal-Shell, Circular Plastic Connectors

Metal-Shell CPC connectors consist of a black thermoplastic insert in a nickel-plated, zinc alloy shell. These connectors are currently available in **shell sizes 14, 22 and 28, and in two**

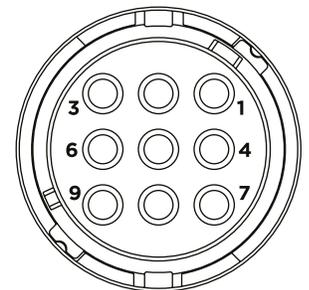
basic configurations consisting of plugs and square flange receptacles.



Miniature CPC Connectors

These compact connectors accept existing Mini-Universal MATE-N-LOK pin and socket contacts, 30-22 AWG [.05-.3 mm²]. Two shell sizes (8 or 11) are available, accommodating **from**

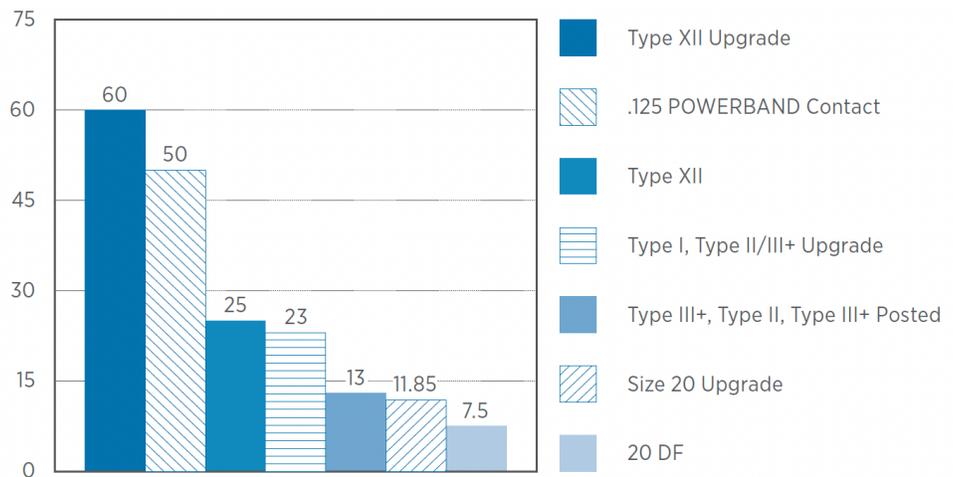
1 to 4 and 5 to 9 positions. Featuring high contact density and IP67 sealing, these durable connectors are well suited for many wire-to-wire and wire-to-panel applications.



CURRENT CARRYING CAPABILITIES

The total current capacity of each contact in a given connector is dependent upon the heat rise resulting from the combination of electrical loads of the contacts in the connector arrangement and the maximum ambient temperature in which the connector will be operating. Caution must be taken so that this combination of conditions does not cause the internal temperature of the connector to exceed the maximum operating temperature of the housing material. Several variables which must be considered when determining this maximum current capability for your application are:

Contact Current Guide Maximum Current (Amperes) for Largest Wire Size



Wire Size- Larger wire will carry more current since it has less internal resistance to current flow and generates less heat. The wire also conducts heat away from the connector.

Connector Size- In general, with more circuits in a connector, less current per contact can be carried.

Current Load Distribution- Spreading those lines with greater current loads throughout the connector, particularly around the outer perimeter, will enhance heat dissipation.

Ambient Temperature- With higher ambient temperatures, less current can be carried.

Contact Selector Chart

Connector Type	20 DF	Type II	Type III+	Posted Type III+	Type XII	POWERBAND Contacts
CPC Series 1		✓	✓	✓		
CPC Series 2	✓					
CPC Series 3					✓	
CPC Series 4		✓	✓		✓	
CPC Series 5						✓
CPC Series 6		✓	✓			✓
CPC 5015			✓			
CMC Series 1		✓	✓	✓		
CMC Series 2	✓					
CMC Series 3					✓	
CMC Series 4		✓	✓		✓	

Note: All part numbers are RoHS Compliant.

CABLE OR PANEL MOUNT

Standard Mate Connectors (Receptacles accept Size 20 DM or DF pin contacts, Plugs accept Size 20 DM or DF socket contacts)

Arrangement		Square Flange Receptacle		Free-Hanging Receptacle	Plug
Shell Size	No. of Positions	With Mounting Holes	With Threaded Inserts ¹		
11-8		205841-1	205841-3	205841-2	205838-1
11-9		206486-1	206852-8	206486-2	206485-1
17-28		205840-3	205840-4	206152-1	205839-3
23-63		205843-1	—	205843-2	205842-1

¹ Four 4-40 threaded inserts per receptacle.

Reverse Mate Connectors (Receptacles accept Size 20 DM or DF socket contacts, Plugs accept Size 20 DM or DF pin contacts)

Arrangement		Square Flange Receptacle		Free-Hanging Receptacle	Plug
Shell Size	No. of Positions	With Mounting Holes	With Threaded Inserts ¹		
11-8		206433-1	206433-3	206433-2	206434-1
17-28		206038-1	206038-4	206038-2	206039-1
23-57		206438-1	—	206438-2	206437-1

¹ Four 4-40 threaded inserts per receptacle.

Note: For Standard and Reverse Mate Connectors the maximum wire insulation diameter is .068 [1.73].

Replacement Coupling Rings

Shell Size	Part No.
11	213811-1
17	213810-1
23	213812-1

Material

Housing - Thermoplastic, 94V-0 rated, black

Related Product Data

- Contacts** - Pages [9-10](#)
- Contact Arrangement** - Page [11](#)
- Component Dimensions** - Page [12](#)
- Accessories** - Pages [13](#)

(Accepts Size 20 DM or DF Crimp, Snap-In Contacts)



Square Flange Receptacle



Free-Hanging Receptacle



Plug

Listed part numbers are for connectors only; **contacts must be ordered separately.**

RECEPTACLES, PRINTED CIRCUIT BOARD MOUNT

Standard Mate (Posted Pin Contacts)

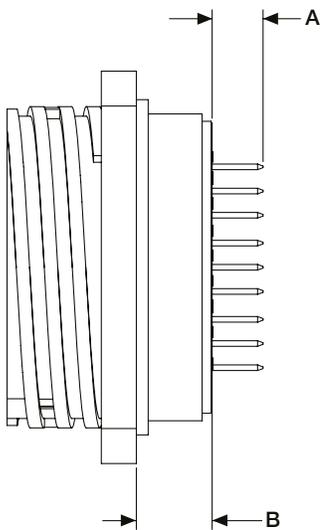
Arrangement		Receptacle Assembly Square Flange Receptacles with Mounting Holes ¹	Dimensions		Contact Finish Code
Shell Size	No. of Positions		A	B	
11-9		1-206852-2	.125 [3.18]	.230 [5.84]	A
		1-206852-1	.352 [8.94]	.230 [5.84]	A
17-28		1-207369-1	.125 [3.18]	.230 [5.84]	A
		1-207369-3	.352 [8.94]	.230 [5.84]	A
23-63		1-206455-2	.227 [5.77]	.338 [8.59]	A
		1-206455-1	.449 [11.40]	.338 [8.59]	A

¹Square flange receptacles available with 4-40 threaded inserts in mounting holes, [contact TE Connectivity](#).

Reverse Mate (Posted Socket Contacts)

Arrangement		Receptacle Assembly Square Flange Receptacles with Mounting Holes ¹	Dimensions		Contact Finish Code
Shell Size	No. of Positions		A	B	
11-8		1-208657-1	.352 [8.94]	.285 [7.24]	A
17-28		1-207216-6	.125 [3.18]	.230 [5.84]	B
		1-207216-7	.352 [8.94]	.230 [5.84]	A
23-57		1-796329-1	.232 [5.89]	.333 [8.46]	A

¹Square flange receptacles available with 4-40 threaded inserts in mounting holes, [contact TE Connectivity](#).



with .025 [0.64] sq. solder tails



Material and Finish

Housing - Thermoplastic, 94V-0 rated, black

Contacts -

A - Duplex plated gold flash on entire contact with .000030 [0.00076] min. gold on contact engagement area, tin on the termination area, all over .000050 [0.00127] min. nickel underplating

B - Plated gold flash on the entire contact, tin on the termination area

Related Product Data

Contact Arrangement - Page [11](#)
Accessories - Pages [13-17](#)

Other Available Posted Contacts

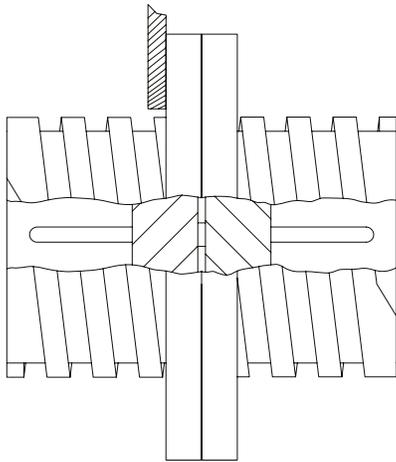
TE Connectivity can make available contacts with various solder tail lengths for loading into the standard or reverse mate, square flange receptacles for applications requiring custom solder tail lengths.

SPECIAL CPC CONNECTORS

Part Numbers

Arrangement		Standard Numbering Plug	Reverse Numbering Plug	Square Flange Feed-Thru Receptacle
Shell Size	No. of Pos			
11-8		205838-1	—	—
17-28		—	206126-1	206127-1

Note: One plug must have standard numbering of cavities, and the other plug must have reverse numbering of cavities.



(Pressure rated up to 30 psi)



Listed plug connector part numbers are for connectors only; **contacts must be ordered separately.**

Material

Housing - Thermoplastic, 94V-0 rated, black

Feed-Thru Contacts - Copper alloy, plated gold over nickel

Related Product Data

Socket Contacts (for Plugs) - Pages [9-10](#)

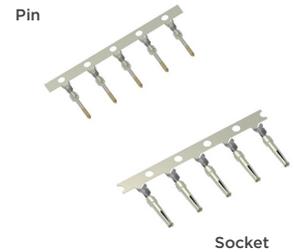
Contact Arrangement - Page [11](#)

Accessories - Pages [13-17](#)

SIGNAL CONTACTS, SIZE 20 DF, PRECISION FORMED, CRIMP

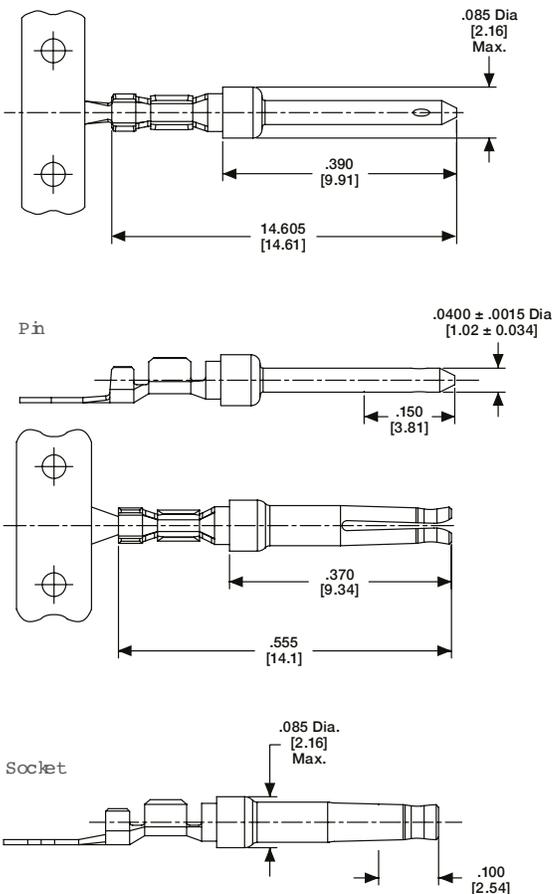
Wire Size Range	Ins. Dia. Max.	Contact Finish Code	Contact Part Nos.				Tooling		Color Code (Loose Piece)
			Pin		Socket		Strip Form Applicator ^{††}	Hand Tool	
			Strip Form	Loose Piece	Strip Form	Loose Piece			
28-24 AWG [0.08-0.2 mm ²]	.040 [1.02]	A	66507-3	66507-9	66505-3	66505-9	2151428 -□ ^{††}	91503-1	Blue Dot
		B	1658540-4	1658540-5	1658538-2	—			
		C	66507-4	—	66505-4	—			
		D	1658540-1	1658540-2	1658538-3	1658538-1			
	.060 [1.52]	A	66682-2	66682-4	66683-2	66683-4	***	91549-1	Black Dot
		B	5066682-9	—	1-5066683-0	—			
		D	5066682-6	—	5066683-7	—			
		26-22 AWG [0.12-0.4 mm ²]	.050 [1.27]	A	745254-2	745254-6			
B	1658544-2			1658544-1	1658543-2	1658543-1			
C	745254-3			745254-7	745253-3	745253-7			
D	1658544-3			1658544-1	1658543-3	1658543-1			
24-20 AWG [0.2-0.6 mm ²]	.060 [1.52]	A	66506-3	66506-9	66504-3	66504-9	2151496 -□ ^{††}	91503-1	Red Dot
		B	1658539-1	1658539-3	1658537-3	1658537-4			
		C	66506-4	—	66504-4	1-66504-0			
		D	1658539-2	1658539-4	1658537-1	1658537-2			

Contact Size - 20
Pin Diameter - .040 [1.02]
*** Test Current - 7.5 ampere** (Single contact, free-air test current; not to be construed as contact rating current. Use only for testing.)
*** Note:** Total current capacity of each contact in any given connector is dependent on the heat rise resulting from the combination of electrical loads of all contacts in the connector arrangement and the maximum ambient temperature in which the connector will be operating.



^{††} For complete information on TE Strip Form Applicators for fully automatic and semiautomatic machines, contact Technical Support.
^{***} Call Technical Support for Automatic Machine Applicator Part Numbers.

With Insulation Support



Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

Material

Pin Body - Brass
Socket - Phosphor bronze

Contact Finish

- A - Select gold flash over nickel on entire contact, with additional .000030 [0.00076] gold on mating end
- B - Duplex plated .000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated
- C - Gold flash over nickel on entire contact
- D - Duplex plated gold flash on mating end, tin on termination end, with entire contact nickel underplated

Insertion/Extraction Tool

Part No. [91285-1](#)
 Instruction Sheet - [408-9404](#)
 This tool includes interchangeable tips to Insert/Extract: Size 22, 28-22 AWG [0.08-0.03 mm²] Crimp Contacts Size 20, 28-20 AWG [0.08-0.6 mm²] Crimp and Solder Cup Contacts Size 20, Posted Contacts

SIGNAL CONTACTS, SIZE 20 DM, SCREW-MACHINED, CRIMP

Pin Diameter - .040 [1.02]

Test Current* - 7.5 amperes (Single contact, free-air test current; not to be construed as contact rating current. Use only for testing.)

Material and Finish

Pin Body - Copper alloy per QQ-B-626
Socket Body - Beryllium copper per QQ-C-530
Socket Sleeve - Passivated stainless steel per QQ-S-766
Plating pin and socket body - .000050-.000100 [0.00127-0.00254] min. gold over .000100-.000150 [0.00254-0.00381] min. copper

Gold plating per MIL-G-45204
 Copper plating per MIL-C-14550

Wire Size Range ¹		Ins. Dia. Max.	Contact Configuration	Tape Mounted Contacts ² Part No.	Loose Piece Contacts		Hand Tool Nos.		Positioner Nos.	
AWG	mm ²				Military No. (M39029/)	Part No.	Military No. (M39029/)	Part No.	Military (M22520/)	Part No.
24-20		.068 [1.73]	Pin	205089-2	64-369	205089-1	02-01	601966-1	2-08	601966-5
			Socket	205090-2	63-368	205090-1	02-01	601966-1	2-08	601966-5

¹ Overall insulation crimp diameter, including crimp barrel, must not exceed .125 [3.18].

² .000015 [0.00038] gold in the mating area over .000050 [0.00127] nickel.



Pin
 M39029/64-369
 (Supersedes M24308/11-1)



Socket
 M39029/63-368
 (Supersedes M24308/10-1)

SIGNAL CONTACTS, TYPE 20 DF, SOLDER CONTACTS

Pin Diameter - .040 [1.02]

Test Current* - 7.5 amperes (Single contact, free-air test current; not to be construed as contact rating current. Use only for testing.)

Material and Finish

Pin - Brass, plated gold flash over nickel on entire contact with additional .000030 [0.00076] min. gold on mating end
Socket - Phosphor bronze, plated gold flash over nickel on entire contact with additional .000030 [0.00076] min. gold on mating end

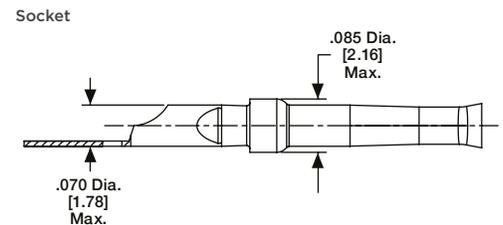
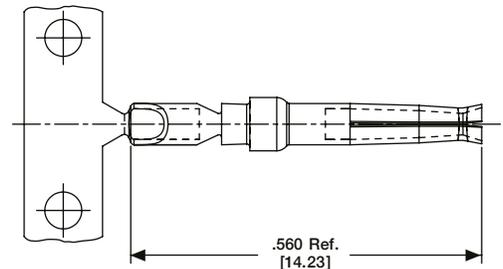
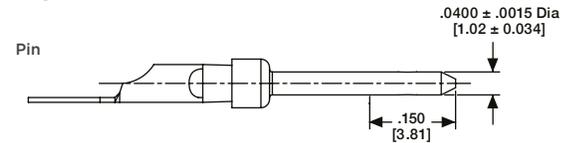
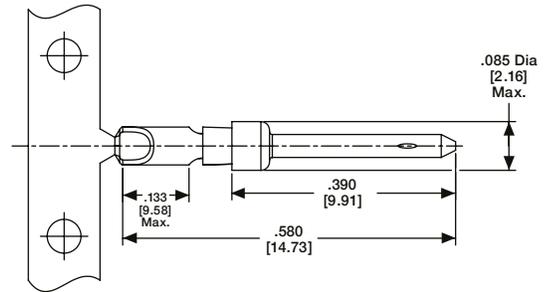
***Note:** Total current capacity of each contact in a given connector is dependent on the heat rise resulting from the combination of electrical loads of all contacts in the connector arrangement and the maximum ambient temperature in which the connector will be operating.



Pin



Socket



Strip Form Contact No.		Loose Piece Contact No.	
Pin	Socket	Pin	Socket
66570-2	66569-2	66570-3	66569-3

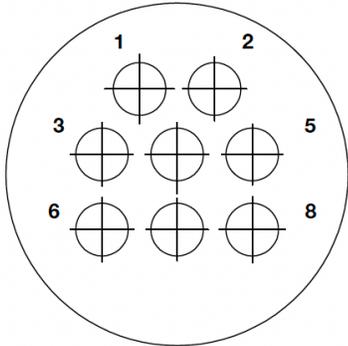
Note: Contacts to be soldered to wire before being inserted into housing, 18 AWG [0.8-0.9 mm²] max. wire size.

Note: All part numbers are RoHS Compliant.

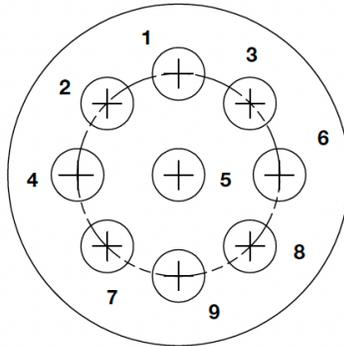
CONTACT ARRANGEMENTS

Note: Contact arrangements shown are of pin mating face (plug or receptacle). Socket mating face is mirror image.

Shell Size 11

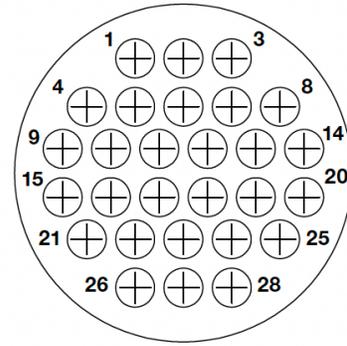


Arrangement 11-8
Max. Wire Ins. Dia. = .068 [1.73]



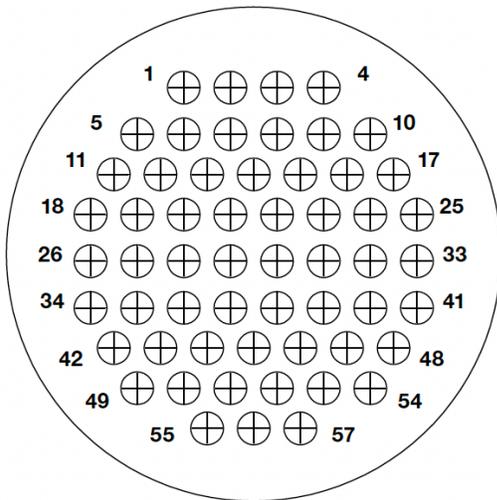
Arrangement 11-9
Max. Wire Ins. Dia. = .068 [1.73]

Shell Size 17

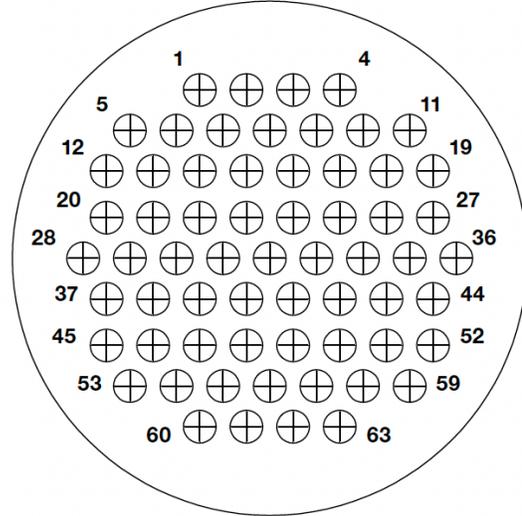


Arrangement 17-28
Max. Wire Ins. Dia. = .068 [1.73]

Shell Size 23



Arrangement 23-57
Max. Wire Ins. Dia. = .068 [1.73]

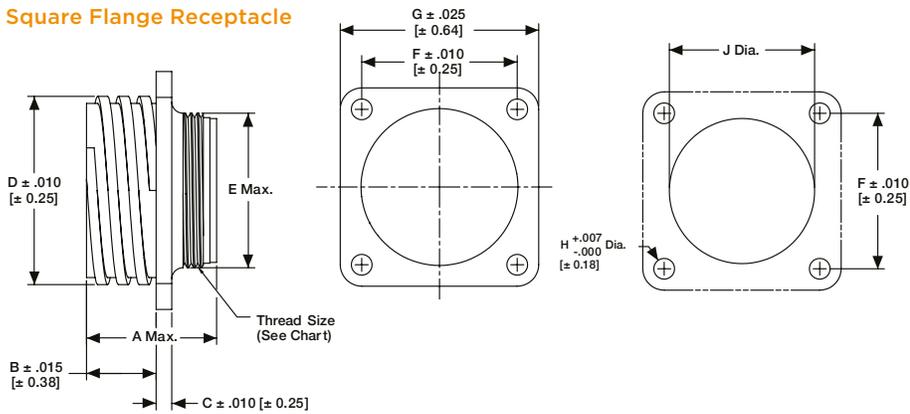


Arrangement 23-63
Max. Wire Ins. Dia. = .068 [1.73]

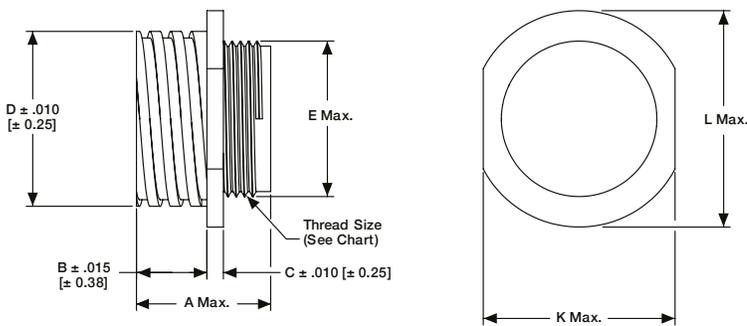
Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

COMPONENT DIMENSIONS

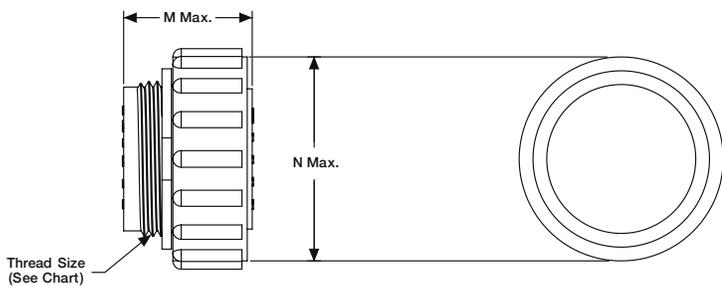
Square Flange Receptacle



Free-Hanging Receptacle



Plug



Arrangement		Dimensions													Thread Size
Shell Size	No. of Pos.	A	B	C	D	E	F	G	H	J	K	L	M	N	
11-8 11-9		.809 [20.55]	.420 [10.67]	.094 [2.39]	.688 [17.48]	.630 [16]	.844 [21.44]	1.125 [28.58]	.125 [3.18]	.840 [21.34]	.817 [20.75]	.935 [23.75]	.800 [20.32]	.975 [24.77]	5/8-24 UNEF-2A
17-28		.809 [20.55]	.420 [10.67]	.094 [2.39]	1.050 [26.67]	.943 [23.95]	1.125 [28.58]	1.435 [36.45]	.150 [3.81]	1.210 [30.73]	1.161 [29.49]	1.310 [33.27]	.800 [20.32]	1.349 [34.26]	15/16-20 UNEF-2A
23-57 23-63		.924 [23.47]	.420 [10.67]	.156 [3.96]	1.438 [36.53]	1.515 [38.48]	1.438 [36.53]	1.750 [44.45]	.150 [3.81]	1.610 [40.89]	1.500 [38.1]	1.733 [44.02]	.915 [23.24]	1.788 [45.42]	1-3/8-18 UNEF-2A

Note: All dimensions apply to both standard and reverse mate connectors.

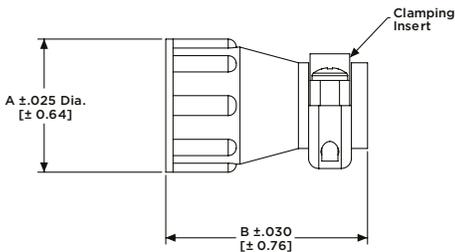
Note: All part numbers are RoHS Compliant.

CABLE CLAMPS

Shell Size	Dimensions		Cable O.D. (Max.)	Thread Size	Part No.	
	A	B			Individually Packaged	Bulk Packaged*
11	.825 [20.96]	1.250 [31.75]	.329 [8.36]	5/8-24 UNEF-2B	1-206062-4	1-206062-7** (400)
13	.950 [24.13]	1.400 [35.56]	.453 [11.51]	3/4-20 UNEF-2B	206966-7	206966-9** (200)
17	1.125 [28.58]	1.400 [35.56]	.453 [11.51]	15/16-20 UNEF-2B	206070-8	1-206070-0** (200)
23	1.600 [40.64]	1.555 [39.5]	.703 [17.86]	1-3/8-18 UNEF-2B	206138-8	1-206138-0** (100)

* Numbers in parentheses specify, in multiples, the minimum quantity of parts that can be ordered.
 ** Packaging includes two screws: shell sizes 11-17, screw length .500 [12.7]; shell size 23, screw length .625 [15.88].

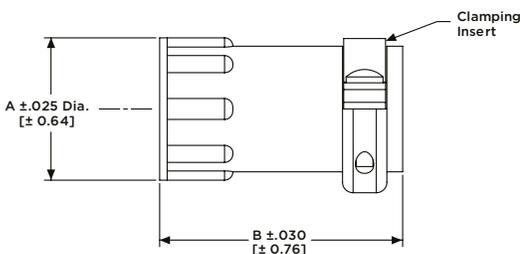
- Notes:**
1. Clamping areas adjustable by inverting or changing clamping inserts. The quantity of inserts supplied with each assembly is as follows: for size 11 cable clamps, one insert; for all other cable clamps, two inserts.
 2. Components for all cable clamps are packaged unassembled. This includes the cable clamp, two screws and the clamping inserts.
 3. Cable clamps can be threaded directly onto plugs or receptacles, or onto back-shell extenders (page 15).
 4. Replacement screws are available in the following sizes: 3/8 in. [9.52] - [5019024-1](#), 1/2 in. [12.7] - [5019024-2](#), 5/8 in. [15.88] - [5019024-3](#), 1 in. [25.4] - [5019024-4](#), 3/4 in. [19.05] - [5019024-5](#).
 5. Cable clamp inserts not sold separately.



Shell Size	Dimensions		Cable O.D. (Max.)	Thread Size	Part No.	
	A	B			Individually Packaged	Bulk Packaged*
11	.850 [21.59]	1.450 [36.83]	.453 [11.51]	5/8-24 UNEF-2B	206358-5	206358-6** (400)
13	1.131 [28.73]	1.655 [42.04]	.703 [17.86]	3/4-20 UNEF-2B	207008-5	207008-6** (200)
17	1.131 [28.73]	1.655 [42.04]	.703 [17.86]	15/16-20 UNEF-2B	206322-9	1-206322-0** (200)
23	1.600 [40.64]	1.655 [42.04]	1.125 [28.58]	1-3/8-18 UNEF-2B	206512-5	206512-6** (100)

* Numbers in parentheses specify, in multiples, the minimum quantity of parts that can be ordered.
 ** Packaging includes two screws: shell sizes 11-17, screw length .500 [12.7]; shell size 23, screw length .625 [15.88].

- Notes:**
1. Clamping areas adjustable by inverting or changing clamping inserts. The quantity of inserts supplied with each assembly is as follows: for size 11 cable clamps, one insert; for all other cable clamps, two inserts.
 2. Components for all cable clamps are packaged unassembled. This includes the cable clamp, two screws and the clamping inserts.
 3. Cable clamps can be threaded directly onto plugs or receptacles, or onto back-shell extenders (page 15).
 4. Replacement screws are available in the following sizes: 3/8 in. [9.52] - [5019024-1](#), 1/2 in. [12.7] - [5019024-2](#), 5/8 in. [15.88] - [5019024-3](#), 1 in. [25.4] - [5019024-4](#), 3/4 in. [19.05] - [5019024-5](#).
 5. Cable clamp inserts not sold separately.



Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

Cable clamps provide strain relief and can be used on all series receptacles and plugs.



Standard Size

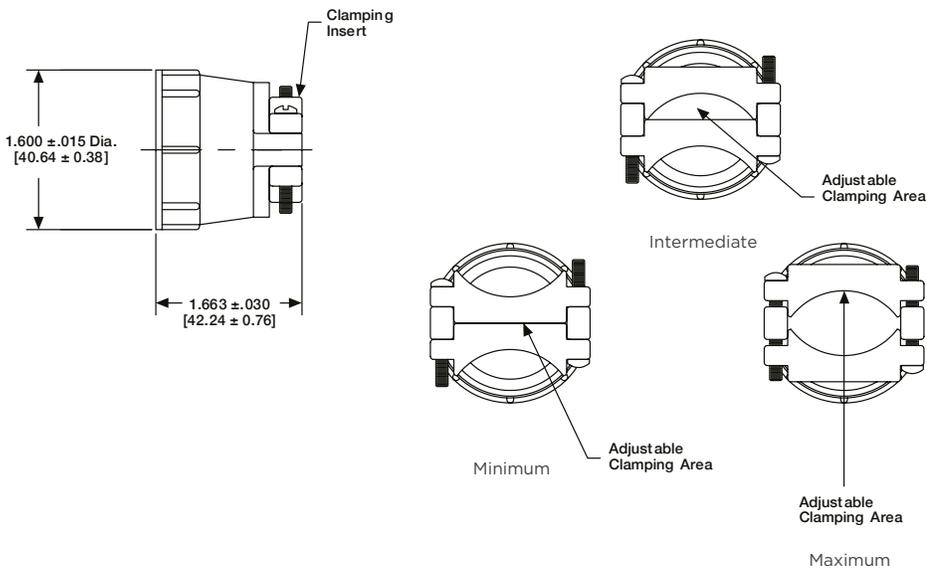
Material

Black thermoplastic heat-stabilized, fire-resistant, self-extinguishing, UL 94V-0 rated



Large Size

SELF-CENTERING CABLE CLAMP (SHELL SIZE 23)



Notes:

1. Clamping area is adjustable by inverting clamping inserts; maximum cable diameter is 1.125 [28.58].
2. Components for cable clamp are packaged unassembled. This includes the cable clamp, two screws (1.00 [25.4]) and the clamping inserts.
3. Cable clamp can be threaded directly onto plugs or receptacles, or onto back-shell extenders ([page 15](#)).

The self-centering cable clamp is used in applications where strain relief protection is required and the cable or wire bundle is large and/or stiff.



Material

Black thermoplastic,
UL 94V-0 rated

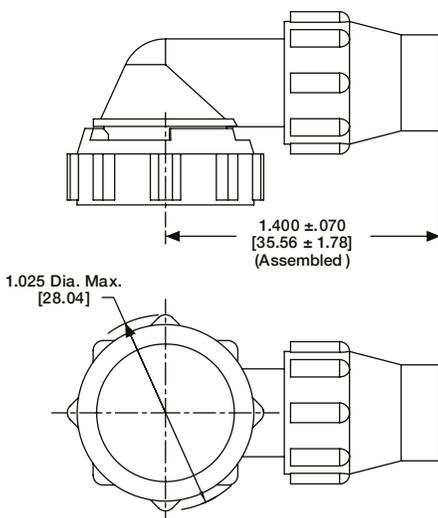
Part Numbers

[20774-3](#) (individually packaged)
[20774-4](#) (bulk packaged)

RIGHT-ANGLE CABLE CLAMPS

Shell Size	Dimensions	Cable O.D. (Max.)	Coupling Ring Thread Size	Part Number	
	A			Kit	Kit w/Cover
11	.900 [22.86]	.329 [8.36]	5/8-24 UNEF-2B	796379-2	1546347-2
13	1.100 [27.94]	.453 [11.51]	3/4-20 UNEF-2B	796380-2	1546348-2
17	1.200 [30.48]	.453 [11.51]	15/16-20 UNEF-2B	796381-2	1546349-2
23	1.500 [38.10]	.703 [17.86]	1-3/8-18 UNEF-2B	796382-2	1546350-2

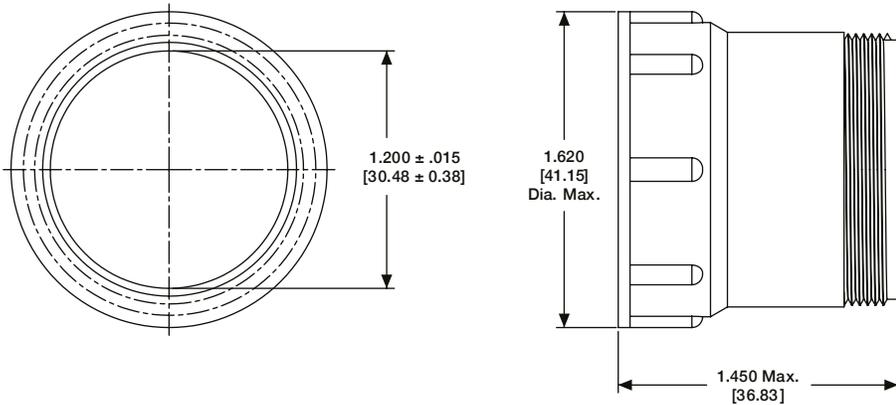
Right-angle cable clamps are used in tight areas where typical 180° cable clamp strain reliefs will not fit.



Style B
Part Number [213982-1](#)
(for Shell Size 13)

Note: All part numbers are RoHS Compliant.

BACK-SHELL EXTENDER (SHELL SIZE 23)



Note: Back-shell extenders can be threaded directly onto plugs or receptacles and will accept cable clamps of the appropriate size (page [13-14](#)).

A back-shell extender is used with a cable clamp in applications where added length and/or additional wire breakout are required.



Material

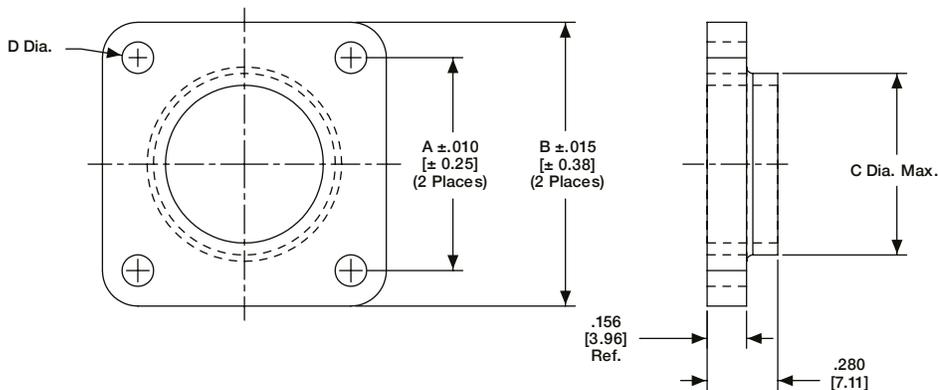
Black glass-filled thermoplastic

Part No. [207055-1](#)

PANEL MOUNT FLANGES (PLUGS ONLY)

Shell Size	Dimensions				Part Number
	A	B	C	D	
11	.844 [21.44]	1.125 [28.58]	.750 [19.05]	.125 [3.18]	207299-1
13	.969 [24.61]	1.280 [32.51]	.875 [22.22]	.125 [3.18]	207299-2
17	1.125 [28.58]	1.435 [36.45]	1.110 [28.19]	.150 [3.81]	207299-3
23	1.438 [36.53]	1.750 [44.45]	1.510 [38.35]	.150 [3.81]	207299-4

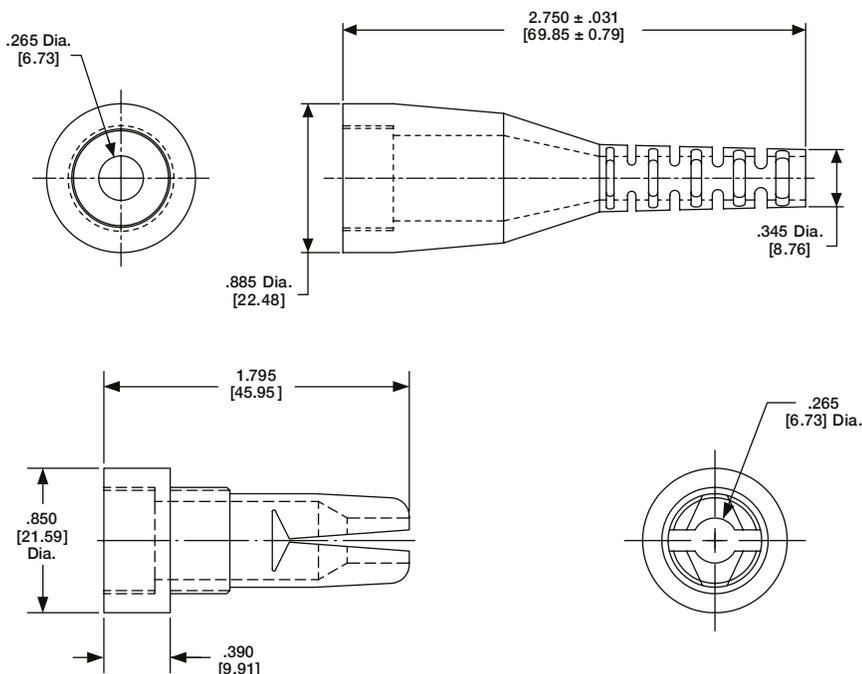
A panel mount flange is used in applications that require the plug half of a connector to be panel mounted.



Material

Black thermoplastic

FLEXIBLE CABLE BOOT AND INTERNAL CABLE GRIP (SHELL SIZE 11)



Flexible cable boots, with internal cable grip installed, provide strain relief capabilities for jacketed cable in applications where aesthetic appearance is essential. They can be threaded onto plugs or receptacles.

Cable Grip



Cable Boot

Material

Black thermoplastic

Cable Range

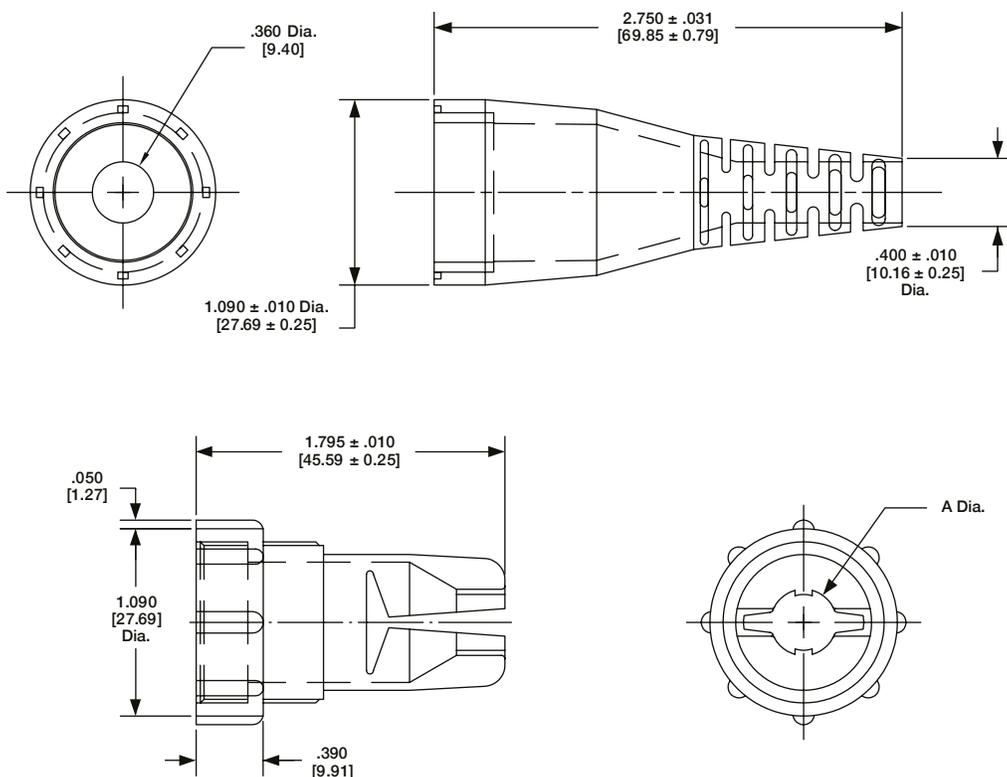
.150-.250 [3.81-6.35] Dia.

Part Numbers

[207489-1](#) (Cable Boot)

[207490-1](#) (Cable Grip)

FLEXIBLE CABLE BOOT AND INTERNAL CABLE GRIP (SHELL SIZE 17)



Flexible cable boots, with internal cable grip installed, provide strain relief capabilities for jacketed cable in applications where aesthetic appearance is essential. They can be threaded onto plugs or receptacles.

Cable Boot



Cable Grip

Material

Black thermoplastic

Part Numbers

[207241-1](#) (Cable Boot)

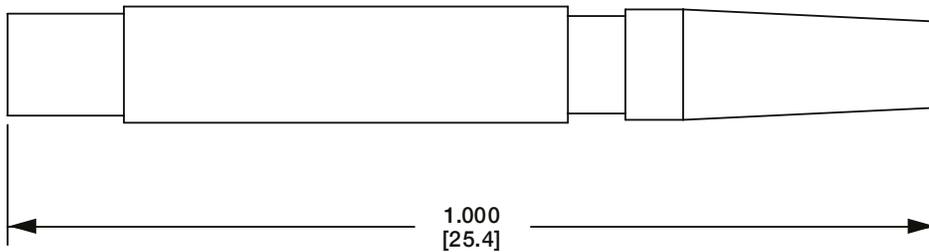
[207387-1](#) (Cable Grip)

A Dia. = .325 [8.26] for cable range of .200-.250 [5.08-6.35]

[207387-2](#) (Cable Grip)

A Dia. = .385 [9.78] for cable range of .250-.350 [6.35-8.89]

KEYING PLUGS

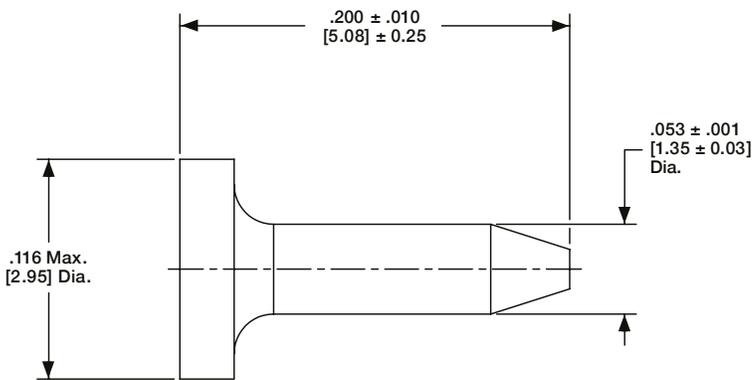


Material

Nylon, natural, UL 94V-2 rated

Series 1 and Series 4 Keying Plug
(for Types III+ Contacts)

Part No. [200821-1](#)

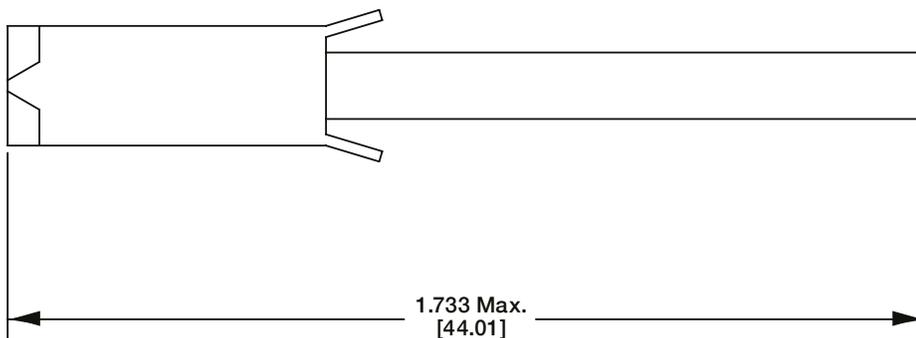


Material

Polyphenylene oxide, white,
UL 94V-1 rated

Series 2 Keying Plug
(for Size 20 DM and 20 DF Contacts)

Part No. [206509-1](#)



Material

Nylon, natural, UL 94V-2 rated

Series 3 and Series 4 Keying Plugs
(for Type XII Contacts)

Part Nos. [206508-1](#) (Socket Cavities) - Shown Above
[207597-1](#) (Pin Cavities)

Keying plugs are used to provide keying capabilities for all connector series. Keying plugs are used in socket cavities of standard mate plugs and reverse mate receptacles, except when used with sealing caps.



PROTECTIVE CAPS

Cap Type	Shell Size	Part Number
PLUG	11	2407269-2
RECEPTACLE/PLUG	11/13	1-2407269-2
RECEPTACLE	13	2-2407269-2
PLUG	17	3-2407269-2
RECEPTACLE	17	4-2407269-2
PLUG	23	5-2407269-2

Note: Caps are available in orange, black, red and yellow. Download [datasheet](#) to learn more.

Material: LDPE (Low Density Polyethylene)

CPC disposable protective caps are designed to fit the existing CPC plugs and receptacles, providing protection from environmental contaminants during storage and handling.



SEALING CAPS (RECEPTACLES ONLY)

Shell Size	Series	Plastic Strap Part No.	Metal Bead Chain Part No.
11	1, 2	206903-2	208800-1
13	1	211870-2	213485-1
17	1, 2, 3	207445-3	208652-1
23	1, 3, 4	207446-3	208680-1
	2	207446-4	208680-2

Material and Finish

Cap - Thermoplastic, heat stabilized, fire resistant, self-extinguishing, 94V-1 rated, black

Sealing Gasket - Neoprene, black

Bead Chain - Steel, nickel plated

Bead Chain Coupling - Brass, plated nickel

Sealing caps are used to protect exposed contacts of unmated receptacles.



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