

MEDIUM VOLTAGE CONDUCTOR COVERS (MVCC)

WILDLIFE AND ASSET PROTECTION PRODUCTS



HIGHLY FLEXIBLE COLD APPLIED CONDUCTOR INSULATION

KEY FEATURES

- **Highly Flexible Cold Applied Conductor Insulation**
- **Superior Anti-Tracking Resistance**
- **Highly Flame Retardant**
- **Halogen-Free**
- **Suitable for applications up to 25 kV**

TE Connectivity's (TE) Raychem Medium Voltage Conductor Covers MVCC provide high quality electrical insulation for substation leads and jumpers. These covers are made from a non-tracking silicone material that is suitable for harsh medium voltage outdoor environments.

Our Raychem MVCC covers are split for easy installation and are suitable for applications up to 25 kV phase to ground. Currently, five sizes are available which will fit conductors with diameters up to 3.50 inches (89 mm).

The flexibility of TE's Raychem MVCC covers makes it possible to install them on tight bends which is ideal for substation applications. They are designed to protect energized conductors from flashovers caused by contact from birds and animals.

APPLICATIONS

- Jumper Insulation
- Conductor Insulation
- Substation
- Overhead Line

RELEVANT STANDARDS AND TEST REPORTS

- IEC 60695-11-10
- ASTM D2303
- IEC 60216
- IEEE Std 4

TECHNICAL SPECIFICATIONS

Product Description (Available in meters)	Product Description (Available in feet)	Application Range Ø mm (inch)	Supplied Length m (feet)	Colour
MVCC-10/.40 (S30)	MVCC-10/.40 (B100)	up to 11 (0.45)	30 (100)	Red
MVCC-G-10/.40 (S30)	MVCC-G-10/.40 (B100)	up to 11 (0.45)	30 (100)	Grey
MVCC-19/.75 (S15)	MVCC-19/.75 (B50)	11 - 19 (0.45 - 0.75)	15 (50)	Red
MVCC-G-19/.75 (S15)	MVCC-G-19/.75 (B50)	11 - 19 (0.45 - 0.75)	15 (50)	Grey
MVCC-25/1.0 (S7)	MVCC-25/1.0 (B25)	19 - 28 (0.75 - 1.125)	7 (25)	Red
MVCC-G-25/1.0 (S7)	MVCC-G-25/1.0 (B25)	19 - 28 (0.75 - 1.125)	7 (25)	Grey
MVCC-45/1.75x4 (S7)	MVCC-45/1.75x4 (B24)	28 - 44 (1.125 - 1.75)	7 (24)	Red
MVCC-G-45/1.75x4 (S7)	MVCC-G-45/1.75x4 (B24)	28 - 44 (1.125 - 1.75)	7 (24)	Grey
MVCC-90/3.5X4(S3.7)	MVCC-90/3.5x4 (B12)	44 - 89 (1.75 - 3.5)	3.7 (12)	Red
MVCC-G-90/3.5X4(S3.7)	MVCC-G-90/3.5x4 (B12)	44 - 89 (1.75 - 3.5)	3.7 (12)	Grey

PRODUCT PERFORMANCE

Properties	Performance	
AC Dry Withstand / 1 min	35 kV Line Voltage (all three phase covered) 25 kV Line Voltage (all three phases covered) 25 kV phase-to-ground 15 kV phase-to-ground	
Loading Cycling 30 days at 130°C	No Deformation or Splitting	
Low Temperature Install at 0°C	Installable without Difficulty	
Properties	Test Method	Requirement
Physical		
Tensile Strength	ASTM D412	1.4 MPa min. 200 psi min.
Ultimate Elongation	ASTM D412	90% min.
Accelerated Aging 168 Hrs At 150±2°C	ASTM D2671	-
Tensile Strength		1.4 MPa min. 200 psi min.
Ultimate Elongation		90% min.
Thermal Endurance	IEC 60216	105°C, 221°F
Electrical		
Dielectric Strength	ASTM D149	120 kV/mm (1.91 mm) min., 300V/mil (0.080") min.
Tracking and Erosion Resistance	ASTM D2303 Step Voltage Method initiating at 2.5 kV	No tracking or erosion to top surface or flame failure after 200 minutes

TECHNICAL REPORT

EDR-5498	MVCC Material Test Report
EDR-5461	MVCC Product Test Report

INSTALLATION INSTRUCTIONS

EPP-3736	MVCC Installation Instruction
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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)

Learn more: [TE.com/energy](https://www.te-connectivity.com/energy)

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