



## MEDIUM VOLTAGE CONDUCTOR COVERS MVCC

### WILDLIFE AND ASSET PROTECTION PRODUCTS

#### METRIC SELECTION CHART

#### KEY FEATURES

- Superior tracking resistance
- Protection for leads and jumpers
- Simple, quick and wraparound installation

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. TE's Raychem MVCC covers are split for easy installation.

MVCC is suitable for applications up to 25 kV phase to ground. Currently, four sizes are available and will fit conductors with diameters up to 89 mm (3.50"). The flexibility of the covers allows for installation on tight bends which is ideal for substation applications. Covers are designed to protect energized conductors from flashovers due to contact from birds and animals.

**Customers can count on consistent, high quality products, driven by TE's proven innovation and backed by our extraordinary customer support.**

## Medium Voltage Conductor Covers MVCC



TE's wildlife and asset protection products and systems of tubing, tapes, sheets, pre-formed covers and barriers provide a proven, cost-effective and easy-to-install solution to bird, animal and weather related outages.

### PRODUCT PERFORMANCE

#### Test

<b>AC Dry Withstand/1 min.</b>	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
<b>Loading Cycling 30 days at 130°C</b>	No Deformation or Splitting
<b>Low Temperature Install at 0°C</b>	Installable without Difficulty

#### Physical

Key Material Properties	Test Method	Results
<b>Accelerated Aging 168hrs. 150°C Tensile Strength</b>	ASTM D412	> 1.3 MPa (psi)
<b>Accelerated Aging 168hrs. 150°C Ultimate Elongation</b>	ASTM D412	90% min.
<b>Low Temperature Flexibility 4hrs.- 20°C</b>	ASTM D2671	No Cracking

#### Electrical

<b>Dielectric Strength 1.91 mm thickness</b>	ASTM D149	> 120 kV/cm (300 V/mil)
<b>Tracking and Erosion Resistance</b>	ASTM D2303	No tracking or erosion to top surface or flame failure after: 1hr. at 2.5 kV 1hr. at 2.75 kV 1hr. at 3.0 kV 20 min. at 3.25 kV
<b>Volume Resistivity</b>	ASTM D257	$1 \times 10^{13}$ Ohm cm min.

#### Selection

Description	Use Range UOM: mm (Inches)	Color	Supplied Length UOM: M (Feet)
<b>MVCC-10/.40 (S30)</b>	Up to 11 (0.45)	Red	2 pieces at 15 (50)
<b>MVCC-G-10/.40 (S30)</b>	Up to 11 (0.45)	Grey	2 pieces at 15 (50)
<b>MVCC-19/.75 (S15)</b>	11 (0.45) - 19 (0.75)	Red	2 pieces at 7.5 (25)
<b>MVCC-G-19/.75 (S15)</b>	11 (0.45) - 19 (0.75)	Grey	2 pieces at 7.5 (25)
<b>MVCC-25/1.0 (S7)</b>	19 (0.75) - 28 (1.125)	Red	1 piece at 7.0 (25)
<b>MVCC-G-25/1.0 (S7)</b>	19 (0.75) - 28 (1.125)	Grey	1 piece at 7.0 (25)
<b>MVCC-45/1.75 x 4 (S7)</b>	28 (1.125) - 44 (1.75)	Red	6 pieces at 1.2 (4)
<b>MVCC-G-45/1.75 x 4 (S7)</b>	28 (1.125) - 44 (1.75)	Grey	6 pieces at 1.2 (4)
<b>MVCC-90/3.5 x 4 (S3.6)</b>	57 (2.25) - 89 (3.50)	Red	3 pieces at 1.2 (4)
<b>MVCC-90/3.5 x 4 (S3.6)</b>	57 (2.25) - 89 (3.50)	Grey	3 pieces at 1.2 (4)

### TECHNICAL REPORT

EDR-5498	Medium Voltage Conductor Covers MVCC Material Test Report
EDR-5461	Medium Voltage Conductor Covers MVCC Product Test Report

### INSTALLATION INSTRUCTIONS

PII 55790	Installation Instructions for Medium Voltage Conductor Covers MVCC
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