

## **Energy Division**

# MVCC Medium Voltage Conductor Covers for Outage Prevention

Raysulate 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. MVCC covers are split for easy installation.

#### Features

- The MVCC's flexibility allows installation on tight bends which makes it ideal for substation applications
- MVCC covers are designed to protect energized conductors from flashovers due to contact from birds and animals
- MVCC is suitable for applications up to 25 kV phase to ground
- Four sizes are currently available and will fit conductors with diameters up to 1.75"



Product Testing	Result
AC Dry Withstand/1 min.	35 kV Line Voltage (All Three Phases Covered) *25 kV Line Voltage (All Three Phases Covered) 25 kV phase to ground *15 kV phase to ground

\* Note: Product testing results applies to MVCC-10/.40 and MVCC-G-10/.40 product

Loading Cycling 30 days @ 130°C	No Deformation or Splitting

Low Temperature Install @ 0°C

Installable Without Difficulty

Material Properties	Specification	Results
<b>Accelerated Aging</b> 168 hours 150°C Tensile Strength Ultimate Elongation	ASTM D2671	> 1.3 MPa > 75%
<b>Low Temperature</b> Flexibility 4 hours -40°	ASTM D2671	No cracking
<b>Dielectric Strength</b> 3.4 mm thickness	ASTM D149	> 300V/mil
Tracking and Erosion Resistance	ASTM D2303	No Tracking, erosion to top surface or flame failure after: 1 hour at 2.5 kV 1 hour at 2.75 kV 1 hour at 3.0 kV 20 min. at 3.25 kV

### **Selection Information:**

	<b>Conductor Diameter</b>		
Catalog	Use Range		Supplied Length
Number	UOM: Inches (mm)	Color	UOM: feet (M)
MVCC-10/.40 (B100)	up to .450 (11)	Red	1 piece @ 100 (30.4)
MVCC-G-10/.40 (B100)	up to .450 (11)	Gray	1 piece @ 100 (30.4)
MVCC-19/.75 (B50)	.45 (11)75 (19)	Red	2 piece @ 25 (7.6)
MVCC-G-19/.75 (B50)	.45 (11)75 (19)	Gray	2 piece @ 25 (7.6)
MVCC-25/1.0 (B25)	.75 (19) - 1.125 (28)	Red	1 piece @ 25 (7.6)
MVCC-G-25/1.0 (B25)	.75 (19) - 1.125 (28)	Gray	1 piece @ 25 (7.6)
MVCC-45/1.75 x 4 (B24)	1.125 (28) - 1.75 (44)	Red	6 piece @ 4 (1.2)

#### **Technical Report:**

EDR-5461 Medium Voltage Conductor Cover Electrical Testing

Tyco Electronics Corporation 8000 Purfoy Road Fuquay Varina, NC 27526-9349 Tel: 800.327.6996 Fax: 800.527.8350 E-mail: naenergy@tycoelectronics.com http://energy.tycoelectronics.com/raysulate www.tycoelectronics.com Copyright 2008-2010 Tyco Electronics Corporation. All rights reserved. 7-1773453-7 E329 07/10

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