

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
Accelerated Aging 168 hours 150°C Tensile Strength Ultimate Elongation	ASTM D2671	> 1.3 MPa > 75%
Low Temperature Flexibility 4 hours -40°	ASTM D2671	No cracking
Dielectric Strength 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:

	Conductor Diameter		
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

All of the above information, including drawings, illustrations and graphic designs, reflects our present understanding and is to the best of our knowledge and belief correct and reliable. Users, however, should independently evaluate the suitability of each product for the desired application. Under no circumstances does this constitute an assurance of any particular quality or performance. Such an assurance is only provided in the context of our product specifications or explicit contractual arrangements. Our liability for these products is set forth in our standard terms and conditions of sale. Raysulate, TE (logo) and Tyco Electronics are trademarks of the Tyco Electronics group of companies and its licensors.

Energy Division - a pioneer in the development of economical solutions for the electrical power industry. Our product range includes: Cable accessories, connectors & fittings, electrical equipment, instruments, lighting controls, insulators & insulation enhancement and surge arresters.