



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:

Catalog Number	Conductor Diameter Use Range UOM: Inches (mm)	Color	Supplied Length 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