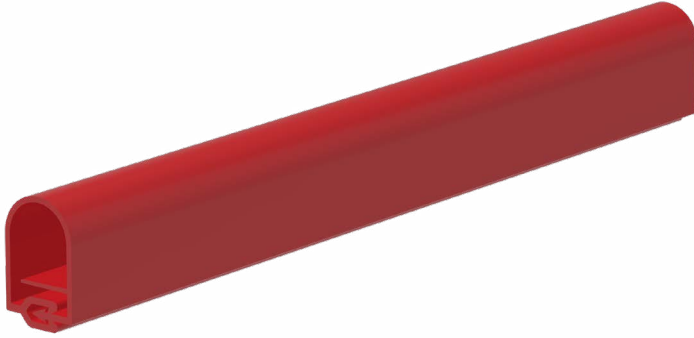


MEDIUM VOLTAGE LINE COVERS (MVLC)

WILDLIFE AND ASSET PROTECTION SOLUTIONS



**EASILY INSTALLABLE RETROFIT
CONDUCTOR INSULATION COVERS**

KEY FEATURES

- UV and weather resistant material
- Flame retardant, halogen free, low smoke and toxicity
- Ease of installation with tooling
- REACH and RoHS compliant

TE Connectivity's (TE) Raychem MVLC Medium Voltage Line Covers provide insulation to help prevent electrical outages caused by trees or wildlife coming into contact with distribution lines. Our MVLC covers are designed to insulate existing bare lines without costly conductor replacement expenditures or additional line hardware.

Our MVLC covers can be applied selectively on problem spans when temperatures are above 0°C. The MVLC material formulation is based on TE's Raychem products' field-proven experience with medium voltage products in harsh environments. The covers have a cross-linked material to create an extremely robust insulation system, ensuring many years of reliable operation.

We have designed a special tool that ensures fast and reliable application of the MVLC on energized lines. It attaches directly to the overhead conductor and remains stationary in a single location on each span. The tool may be manually or automatically operated, using a hand crank or with the aid of a power drill. The tool forms, closes and feeds the MVLC along the conductor with speed and consistency.

APPLICATIONS

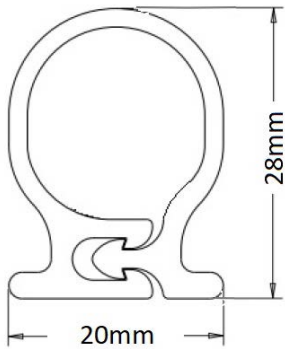
- Bare Conductors
- MV Applications
- Overhead Lines
- Substations

RELEVANT STANDARDS AND TEST REPORTS

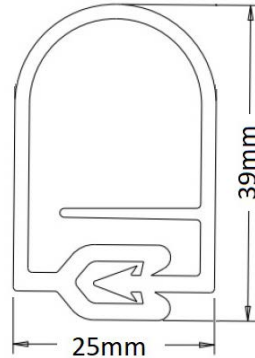
- Tracking Erosion Resistance: ASTM D2303
- Thermal Endurance: IEC 60216
- Dielectric Strength: ASTM D149
- UV Weathering: ASTM G154

TECHNICAL SPECIFICATIONS

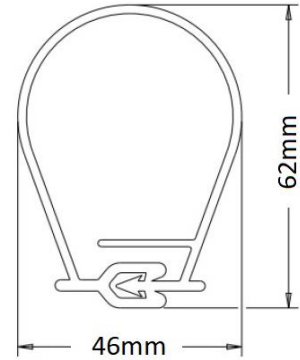
Product Description	Conductor Size (up to)	Conductor Diameter (up to)	Voltage Class	Supplied Length	Product Weight (Nominal)
MVLC-14-A/241	99 mm ² (#6-3/0 kcmil)	12.7 mm (0.5 inches)	25 kV	100 m (330 ft)	0.27 kg/m (0.18 lbs/ft)
MVLC-18-A/U	185 mm ² (#2-397 kcmil)	18 mm (0.75 inches)	15 kV	75 m (247 ft)	0.40 kg/m (0.27 lbs/ft)
MVLC-18-A/241	185 mm ² (#2-397 kcmil)	18 mm (0.75 inches)	25 kV	75 m (247 ft)	
MVLC-38R-A/U	800 mm ² (#477-1590 kcmil)	38 mm (1.5 inches)	15 kV	50 m (165 ft)	0.52 kg/m (0.35 lbs/ft)
MVLC-38R-A/241	800 mm ² (#477-1590 kcmil)	38 mm (1.5 inches)	25 kV	50 m (165 ft)	



MVLC-14



MVLC-18



MVLC-38R

PRODUCT PERFORMANCE

Product Test	Performance
AC Dry Withstand / 1 min.	15 kV min. / 25 kV min.
AC Wet Withstand / 1 min.	15 kV min. / 25 kV min.
AC Dry Long Term Withstand (4 hours)	8.6 kV min. / 14.4 kV min.
30 day Thermal Loading (8 hours at 130°C; 16 hours off)	No MVLC Deformation
Conductor Ampacity	82 to 89% of Bare Conductor Ampacity

Properties	Test Method	Requirement
Physical		
Tensile Strength	ASTM D412	8 MPa min. 1150 Psi min.
Ultimate Elongation	ASTM D412	200% min.
Accelerated Aging 168 hours at 150±2°C	ASTM D2671 ASTM D412	8 MPa min., 1150 Psi min.
Tensile Strength		100% min.
Ultimate Elongation	ASTM G154 Cycle 3 & Cycle 1	7 MPa min. 1015 Psi min.
UV Weathering Resistance (5000 hours)		50% min.
Tensile Strength	IEC 60216	115°C (239°F)
Ultimate Elongation		20% max. thickness loss
Thermal Endurance	1000 Cycles, 2068g	No cracking at -20°C
Abrasion Resistance	ASTM D746	
Low Temperature Impact	Electrical	
Dielectric Strength	ASTM D149	217 kV/cm at 1.27 mm 550 V/mil min at 0.050 inches
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 REPORTS

Document Reference	Material Test Report
EDR-5309	MVLC Material Test Report
EDR-5767	MVLC-14 Product Test Report
EDR-5308	MVLC-18 Product Test Report
EDR-5639	MVLC-38R Product Test Report

TOOLING INFORMATION

Product	Hand Tool	Machine Tool
MVLC-14	MVLC-HANDTOOL-14	MVLC-14-TOOL-100
MVLC-18	MVLC-HANDTOOL-02	MVLC-18-TOOL-03-2006
MVLC-38R	MVLC-38R-HANDTOOL	MVLC-38R-OHTOOL

INSTALLATIONS INSTRUCTIONS

Product	Document Reference
MVLC-14	EPP-3238
MVLC-18	EPP-4041
MVLC-38R	EPP-3348

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

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