



## MEDIUM VOLTAGE LINE COVERS MVLC WILDLIFE AND ASSET PROTECTION PRODUCTS

### KEY FEATURES

- Three sizes cover conductors from 16 mm<sup>2</sup> - 800 mm<sup>2</sup>
- Based on 30+ years of field proven experience with high voltage products in harsh environments
- UV stable as well as tracking and erosion resistant
- Electronically cross-linked to create an extremely robust insulation system ensuring long reliable operation in harsh environment
- A mastic sealed version of this product is available for 25 kV/36 kV
- REACH and RoHS Complaint

TE Connectivity's (TE) Raychem Medium Voltage Line Covers MVLC provide state-of-the-art insulation to help prevent electrical outages caused by trees or wildlife coming into contact with distribution lines. TE's Raychem MVLC 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 covers material formulation are based on TE's Raychem products' field-proven experience with medium voltage products in harsh environments. The material is UV stable as well as tracking and erosion resistant. They have a cross-linked material to create an extremely robust insulation system, ensuring many years of reliable operation in the harshest environments.

TE has 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 gasoline powered drill. The tool forms, closes and feeds the MVLC along the conductor with speed and consistency.

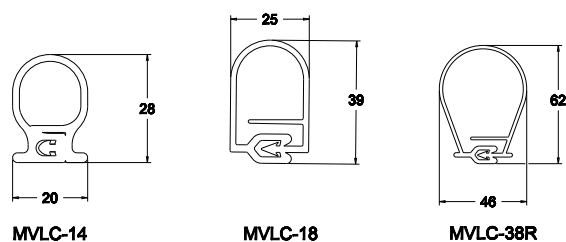
**Customers can count on consistent, high quality products, driven by TE's proven innovation and backed by our extraordinary customer support.**

## Medium Voltage Line Covers MVLC



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 WEIGHT (NOMINAL)	
MVLC-14	0.27 kg/m (0.18 lbs/ft)
MVLC-18	0.40 kg/m (0.27 lbs/ft)
MVLC-38	0.52 kg/m (0.35 lbs/ft)



### PRODUCT PERFORMANCE MVLC-A/U | MVLC-A/241 (SEALED)

Test				
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 hrs.	8.6 kV min / 14.4 kV min			
30 day Thermal loading (8hrs at 130°C; 16hrs off)	No MVLC Deformation			
Conductor Ampacity	82-89% of Bare Conductor Ampacity			
Physical				
Properties	Test Method	Requirement		
Tensile Strength	ASTM D638	8 MPa min. 1150 psi min.		
Ultimate Elongation	ASTM D638	200% min.		
Abrasion Resistance	1000 Cycles, 2068g	20% max. Thickness loss		
Low Temperature Impact	ASTM D746	No cracking at -20°C		
Electrical				
Properties	Test Method	Requirement		
Dielectric Strength	ASTM D149	217 kV/cm at 1.27 mm 550 V/mil min at 0.050"		
Tracking and Erosion Resistance	ASTM D2303 Stop Voltage Method (Initiate at 2.5 kV)	No tracking or erosion to top surface or flame. failure after: 200 minutes		
Selection				
Description	Conductor Size Up To	Conductor Diameter up to	Voltage Class	UOM: (ft) Spool length*
MVLC-14-A/U	99 mm <sup>2</sup> (#6-3/0 kcmil)	12.7 mm (0.5 inches)	15 kV	100 (330)
MVLC-14-A/241	99 mm <sup>2</sup> (#6-3/0 kcmil)	12.7 mm (0.5 inches)	25 kV	100 (330)
MVLC-18-A/U	185 mm <sup>2</sup> (#2-397 kcmil)	18 mm (0.75 inches)	15 kV	75 (247)
MVLC-18-A/241	185 mm <sup>2</sup> (#2-397 kcmil)	18 mm (0.75 inches)	25 kV	75 (247)
MVLC-38R-A/U	800 mm <sup>2</sup> (477-1590 kcmil)	38 mm (1.5 inches)	15 kV	50 (165)
MVLC-38R-A/241	800 mm <sup>2</sup> (477-1590 kcmil)	38 mm (1.5 inches)	25 kV	50 (165)

### TECHNICAL REPORT

EDR-5308	Medium Voltage Line Covers MVLC Product Test Report
EDR-5309	Medium Voltage Line Covers MVLC Material Test Report
EDR-5316	Medium Voltage Line Covers MVLC Extreme Cold Test Report

### INSTALLATION INSTRUCTIONS

PII 55646	Installation Instructions for Medium Voltage Line Covers MVLC
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Contact a TE Sales representative on details for specific installation instructions