

MEDIUM VOLTAGE LINE COVER (MVLC)

WILDLIFE AND ASSET PROTECTION PRODUCTS

KEY FEATURES

- Three sizes cover conductors from #6 to 1590 kcmil (16-800 mm²)
- A mastic sealed version of this product is available

TE Connectivity's (TE) Raychem medium voltage line cover (MVLC) provides state-of-the-art insulation to help prevent electrical outages caused by trees or wildlife coming into contact with distribution lines. Designed to insulate existing bare lines without costly conductor replacement expenditures or additional line hardware, the MVLC cover may be applied selectively on problem spans when temperatures are above 0°C. The MVLC cover material formulation is based on Raychem products' field-proven experience with MV products in harsh environments. The MVLC material is UV stable as well as tracking and erosion resistant. The MVLC cover is 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 cover 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 cover along the conductor with speed and consistency.

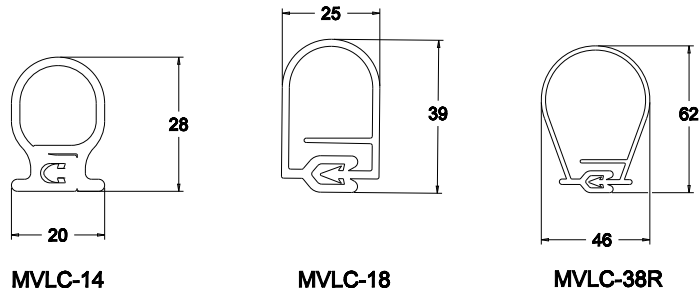
Customers can count on consistent, high quality products, driven by TE's proven innovation and backed by our extraordinary customer support.

Medium Voltage Line Cover (MVLC)



TE's wildlife and asset protection products and systems of tubes, 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	0.27kg/m (0.18 lbs/ft)
MVLC-18	0.40kg/m (0.27 lbs/ft)
MVLC-38	0.52kg/m (0.35 lbs/ft)



PRODUCT PERFORMANCE MVLC-A/U MVLC-A/241 (Sealed)					
TEST	AC withstand (dry), 1 minute	15 kV min. / 25 kV min.			
	AC withstand (wet), 1 minute	15 kV min. / 25 kV min.			
	AC long term withstand (dry), 4 hours	8.6 kV min. / 14.4 kV min.			
	30 day thermal loading (8 hr at 130°C; 16 hr off)	No MVLC deformation			
	Conductor ampacity	82-89% of bare conductor ampacity			
PHYSICAL	Material properties/pps 3010/42	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	Dielectric Strength	ASTM D149	217 kV/cm @ 1.27 mm 550. V/mil min at 0.050"		
	Tracking/Erosion Resistance	ASTM D2303 Step 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	Voltage Class	UOM: m (ft) Spool Length*	Overhead Installation Tool
	MVLC-14-A/U	126 mm ² (3/0)	15 kV	100 (330)	Contact Sales Representative
	MVLC-14-A/241	126 mm ² (3/0)	25 kV	100 (330)	Contact Sales Representative
	MVLC-18-A/U	356 mm ² (397 kcmil)	15 kV	75 (247)	MVLC-18-TOOL-01
	MVLC-18-A/241	356 mm ² (397 kcmil)	25 kV	75 (247)	MVLC-18-TOOL-02
	MVLC-38R-A/U-C(50)	800 mm ² (1.590 kcmil)	15 kV	50 (165)	Both can be installed with MVLC-38R-HANDTOOL or MVLC-38R-OHTOOL (automatic tool)
	MVLC-38R-A/241-C(50)	800 mm ² (1.590 kcmil)	25 kV	50 (165)	
ORDER	*6ft cut lengths also available.				
	Note: Non-Impact Hydraulic Drill available.				
	MVLC-Hand-Tool-02 works with MVLC-18.				
	MVLC-Hand-Tool-14 will install MVLC-14 products only.				

TECHNICAL REPORT	
EDR-5308	MVLC Electrical Testing (-18)
EDR-5309	MVLC Material Qualification to PPS 3010/42
EDR-5316	Summary of Wind and Ice/Snow Load testing of MVLC at EA Technology

FOR MORE INFORMATION: TE Technical Support Centers

USA:	+ 1 800 327 6996
France:	+ 33 380 583 200
UK:	+ 44 0870 870 7500
Germany:	+ 49 896 089 903
Spain:	+ 34 916 630 400
Italy:	+ 39 333 250 0915
Benelux:	+ 32 16 351 731
Canada:	+ 1 (905) 475-6222
Mexico:	+ 52 (0) 55-1106-0800
Latin/S. America:	+ 54 (0) 11-4733-2200
China:	+ 86 (0) 400-820-6015

te.com/energy

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