

MEDIUM VOLTAGE LINE COVER MVLC

WILDLIFE AND ASSET PROTECTION PRODUCTS

a RAYCHEM product

KEY FEATURES

- Three sizes cover conductors from 16 to 800 mm²
- Based on 30+ years of field proven experience with HV products in harsh environments
- UV stable as well as tracking and erosion resistant
- Electronically cross-linked to create an extremely robust insulation system, ensuring many years of reliable operation in the harshest environments
- A mastic sealed version of the product is available for 25 kV/36 kV

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.

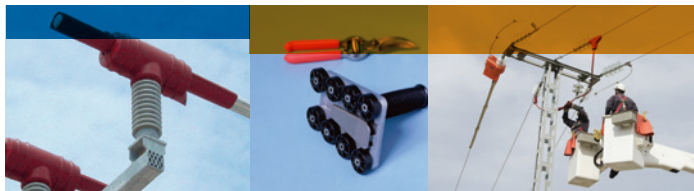
Raychem cover MVLC is designed to insulate existing bare lines without costly conductor replacement expenditures or additional line hardware. It may be applied selectively on problem spans when temperatures are above 0°C.

TE Connectivity has designed a special tool that ensures fast and reliable application of the Raychem cover MVLC. The tool allows application on energized lines, when used by an appropriate line installation crew. It attaches directly to the overhead conductor on each span.

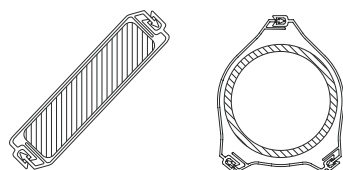
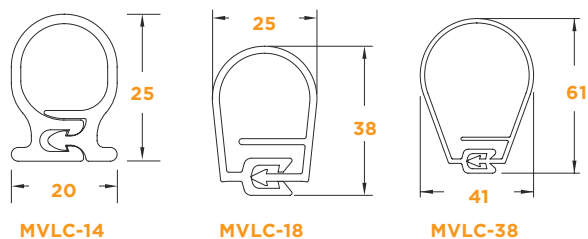
The tool may be manually or automatically operated, using a hand crank or with the aid of a powered drill. The tool forms, closes and feeds the Raychem cover MVLC along the conductor with speed and consistency. Raychem MVLC hand tool allows for quick installation on short lengths of conductors, especially in substations.

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

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.



Nominal Dimensions (mm)



Busbar up to 120 x 16 with 2 x MVLC-38

Busbar of Dia. 100 with 2 x MVLC-38 1 x MVLC-18

Product performance	
Test	MVLC-A/U / MVLC-A/241 (sealed)
AC withstand (dry) - 1 min.	15 kV min. / 25 kV min.
AC withstand (wet) - 1 min.	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 @ 130°C; 16 hr off)	No MVLC deformation
Conductor ampacity	82 - 89% of bare conductor ampacity

Material properties per pps 3010/42		Test method	Requirement
Physical	Tensile Strength	ASTM D638	8 MPa min.
	Ultimate Elongation	ASTM D638	200% min.
	Abrasion Resistance	1000 cycles, 2068 g	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
	Tracking and Erosion Resistance	ASTM D2303 Step Voltage Method (Initiate @ 2.5 kV)	No tracking or erosion to top surface or flame failure after: 200 minutes

Product selection	
Product	Weight (nominal)
MVLC-14	0.27 kg/m
MVLC-18	0.40 kg/m
UMVLC-38	0.52 kg/m

Note: Non-Impact Hydraulic Drill available. For connectors and drainage points use 2 pieces of MVLC and cable ties. MVLC-Hand-Tool-02 will install both MVLC-18 and MVLC-38 products.

Ordering information				
Conductor Size	Voltage Class	Description	UOM: Roll of length	Overhead Installation Tool
Up to 99 mm ²	15 kV	MVLC-14-A/U	100 m	Contact TE Connectivity
Up to 99 mm ²	25 kV	MVLC-14-A/241	100 m	Contact TE Connectivity
Up to 185 mm ²	15 kV	MVLC-18-A/U	75 m	MVLC-18-TOOL-03-2006
Up to 185 mm ²	25 kV	MVLC-18-A/241	75 m	MVLC-18-TOOL-02
Up to 800 mm ²	15 kV	MVLC-38-A/U	50 m	Contact TE Connectivity
Up to 800 mm ²	25 kV	MVLC-38-A/241	50 m	Contact TE Connectivity

TECHNICAL REPORT

- EDR-5308 MVLC Electrical Testing
- EDR-5309 MVLC Material Qualification to PPS 3010/42
- EDR-5316 Summary of Wind and Ice/Snow Load testing of MVLC at EA Technology
- EDR-5386 Medium Voltage Line Cover MVLC-14 15 & 25 kV Class Electrical testing

te.com/energy

©2014 TE Connectivity Ltd. family of companies. All Rights Reserved. EPP-0764-6/14 Raychem, Raysulate, TE Connectivity and TE Connectivity (logo) are trademarks. Other logos, product and/or company names might be trademarks of their respective owners. While TE has made every reasonable effort to ensure the accuracy of the information in this brochure, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this catalog are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult TE for the latest dimensions and design specifications.

FOR MORE INFORMATION: TE Technical Support Centers

USA:	+1 800 327 6996
France:	+33 380 583 170
UK:	+44 0870 870 7500
Germany:	+49 896 089 903
Spain:	+34 916 630 420
Canada:	+19 054 756 222
Mexico:	+52 551 106 0800
Latin/S. America:	+54 114 733 2200
Netherlands:	+31 736 246 999
China:	+86 400 820 6015