Energy Division

MVLC
Raychem medium voltage line cover

Convenient, reliable protection for bare conductors

Outage prevention
The MVLC, medium voltage line cover, provides state-of-the-art insulation to help prevent electrical outages caused by trees or wildlife coming into contact with distribution lines.

Cost-effective
The MVLC cover is 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.

Live, consistent installation
Tyco Electronics has designed a special tool that ensures fast and reliable application of the MVLC cover. The tool allows application 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.

The MVLC hand tool allows for quick installation on short lengths of conductors, especially in substations.

Wide use range
Three sizes cover conductors from 16 to 800 mm^2.

Higher performance product available
A mastic sealed version of the product is available for 25 kV or higher performance at 15 kV.

High voltage material
The MVLC cover material formulation is based on 30+ years of field proven experience with HV products in harsh environments. The MVLC material is UV stable as well as tracking and erosion resistant. The MVLC cover is electronically cross-linked to create an extremely robust insulation system, ensuring many years of reliable operation in the harshest environments.

Tyco Electronics
Our commitment. Your advantage.

MVLC

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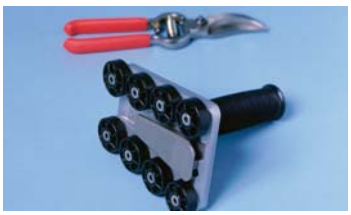
Product Performance

Test	MVLC-A/U / MVLC-A/241 (sealed)
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 @ 130 °C; 16 hr off)	No MVLC deformation
Conductor ampacity	82-89% of bare conductor ampacity

MVLC-18-Tool-03-2006

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, 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
	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



MVLC-Hand-Tool-02

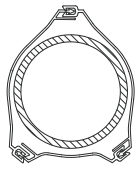
Ordering Information

Conductor Size	Voltage Class	Description	UOM: Roll of length*	Overhead Installation Tool
Up to 99 mm²	15 kV	MVLC-14-A/U	100 m	Contact Tyco Electronics
Up to 99 mm²	25 kV	MVLC-14-A/241	100 m	Contact Tyco Electronics
Up to 185 mm²	15 kV	MVLC-18-A/U	75 m	MVLC-18-TOOL-03-2006
Up to 185 mm²	25 kV	MVLC-18-A/241	75 m	MVLC-18-TOOL-02
Up to 800 mm²	15 kV	MVLC-38-A/U	50 m	Contact Tyco Electronics
Up to 800 mm²	25 kV	MVLC-38-A/241	50 m	Contact Tyco Electronics

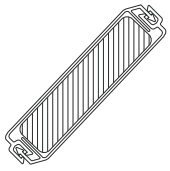
Note: Non-Impact Hydraulic Drill available. * 1.8 m cut lengths also available. Order OLIC-C & S1251 for connectors/drainage points.
MVLC-Hand-Tool-02 will install both MVLC-18 and MVLC-38 products.

Product Selection

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



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

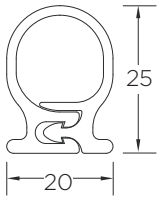


Busbar up to 120 x 16 with 2 x MVLC-38

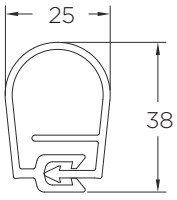
2 MVLC-38 on busbar with BCIC

Technical Reports

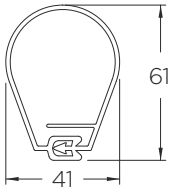
EDR-5308 MVLC Electrical Testing
EDR-5309 MVLC Material Qualification to PPS 3010/42
EDR-5316 Summary of Wind and Ice/Snow Load testing of MVLC at EA Technology



MVLC-14



MVLC-18



MVLC-38

Nominal Dimensions (mm)

Energy Division – innovative and economical solutions for the electrical power industry: cable accessories, connectors & fittings, insulators & insulation, surge arresters, switching equipment, lighting controls, Power Measurement and Control.

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