

MVLC Product Selection

Voltage Class (kV)	Product	Pack Size
	Part Description	Quantity m (ft.)
15	MVLC-14-A/U (100)	100 (328)
25	MVLC-14-A/241-C (100)	100 (328)
15	MVLC-18-A/U-C (75)	75 (246)
25	MVLC-18-A/241-C (75)	75 (246)
15	MVLC-38R-A/U-C (50)	50 (164)
25	MVLC-38R-A/241-C (50)	50 (164)

MVLC Weight Table

Product Size	Conductor Diameter Range mm (Inches)	Supplied Length m (Feet)	Weight kg (lb)
MVLC-14	Up to 12.7mm (0.5")	100m (109ft.)	0.28kg (0.62)
MVLC-18	Up to 18mm (0.75")	75m (82ft.)	0.38kg (0.84)
MVLC-38R	Up to 38mm (1.5")	50m (55ft.)	0.50kg (1.10)

MVLC Tooling Table

MVLC	Hand Tool	Automatic Tool
	Part description	Part description
-14	MVLC-HAND-TOOL-14	MVLC-14-TOOL-100
-18	MVLC-HAND-TOOL-02	MVLC-TOOL-03-2006
-38R	MVLC-38R-HANDTOOL	MVLC-38R-OHTOOL



MVLC Cold Applied Busbar Insulation Selection

				
	Single Busbar (mm)	Double Busbar (mm)		Round busbar (diameter mm)
1 x MVLC-14	-	-	-	10
1 x MVLC-14	-	-	-	14
1 x MVLC-18	-	-	-	18
1 x MVLC-38	-	-	-	25
1 x MVLC-38	-	-	-	38
2 x MVLC-18	60 x 10	-	-	45
2 x MVLC-38	80 x 10	2 x (60 x 10)	60 x 30	50
2 x MVLC-38	100 x 10	2 x (80 x 10)	80 x 30	60
2 x MVLC-38	120 x 10	2 x (100 x 10)	100 x 30	75
1 x MVLC-18 2 x MVLC-38	-	2 x (120 x 10)	120 x 30	100

Busbar shape applications



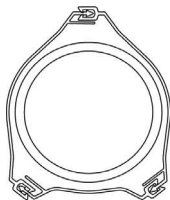
MVLC-14



MVLC-18



MVLC-38R



Busbar applications mm (Inches)	
50.8mm (2")	use 1-MVLC-38 and 1-MVLC-18
63.5mm (2.5") L	use 2-MVLC-38
76.2mm (3")	use 2-MVLC-38
101.6mm (4")	use 2-MVLC-38 and 1-MVLC-18

Technical Data Sheet/Material Information

Material Testing		
Key Material Properties	Test Method	Results
Tensile Strength	ASTM D638	8 MPa min. 1150 psi min.
Ultimate Elongation		200% min.
Abrasion Resistance	1000 Cycles, 2068g	20% max. Thickness loss
Low temperature impact	ASTM D746	No cracking at -20°C
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 2.5kV)	No tracking or erosion to top surface or flame. Failure after: 200 minutes
Product Testing		
AC Dry Withstand / 1 min	15 kV min / 25 kV min	
AC 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 Terminal loading (8hrs at 130°C; 16hrs off)	No MVLC Deformation	
Conductor Ampacity	82 - 89% of Bare Conductor Ampacity	

Product Selection

Description	Conductor size up to mm	Conductor Diameter up to mm (inch)	Voltage class kV	m (ft) spool length*
MVLC-14-A/U	99 mm (#6-3/0 kcmil)	12.7 mm (0.5")	15 kV	100 (300)
MVLC-14-A/241	99 mm (#6-3/0 kcmil)	12.7 mm (0.5")	25kV	100 (300)
MVLC-18-A/U	185 mm (#2-397 kcmil)	18 mm (0.75")	15kV	75 (247)
MVLC-18-A/241	185 mm (#2-397 kcmil)	18 mm (0.75")	25kV	75 (247)
MVLC-38R-A/U	800 mm (477-1590 kcmil)	38 mm (1.5")	15kV	50 (165)
MVLC-38R-A/241	800 mm (477-1590 kcmil)	38 mm (1.5")	25kV	50 (165)

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

