RAYCHEM LOW VOLTAGE BUSBAR INSULATION TUBES LVIT

WILDLIFE AND ASSET PROTECTION PRODUCTS



MADE FROM FLAME RETARDANT AND UV-RESISTANT MATERIAL FOR EXCELLENT INDOOR AND OUTDOOR PERFORMANCE.

APPLICATIONS

- Switchgear Solutions
- Substation Solutions

RELEVANT STANDARDS AND TESTING

- Thermal Endurance - IEC 60216
- Glow Wire Flammability - IEC 60695-2-11
- Dielectric Strength - ASTM D149
- Accelerated Heat Aging - ASTM D2671

KEY FEATURES

- UL224 Certified
- Flame retardant
- Suitable for indoor and outdoor applications up to 1 kV
- Continuous operating temperature rating up to 105°C (221°F)
- Good thermal emissivity and contact with busbars
- Compatible with all other products in the TE low voltage insulation range

TE Connectivity (TE) Raychem medium-wall, flame retardant, heat-shrinkable Low Voltage Busbar Insulation Tubes LVIT are suitable for insulating busbars up to 1 kV. These highly flexible tubes can be used on curved and bent busbars with circular and rectangular cross-sections.

Our TE Raychem LVIT tubes can be easily installed in a factory environment using an oven or on the field using a gas torch or hot air. These tubes are manufactured in UV-resistant material, making them suitable for indoor and outdoor applications.

Our TE Raychem LVIT tubes are suitable for enclosed and exposed busbars and connections in switchgear, substations, motor control centers, and other low-voltage electrical equipment and applications.

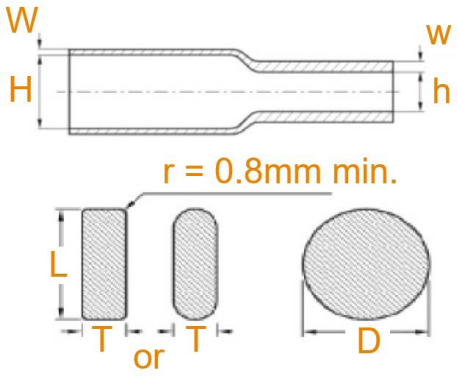
TECHNICAL SPECIFICATION

PART DESCRIPTION	H MIN. mm (inches)	h MAX. mm (inches)	W NOM. mm (inches)	w MIN. mm (inches)	STD PACK SIZE m (ft)
LVIT-30/10-A/U	30 (1.18)	10 (0.39)	0.5 (0.02)	1.5 (0.06)	60 (200)
LVIT-75/25-A/U	75 (2.95)	25 (0.98)			30 (100)
LVIT-100/35-A/U	100 (3.94)	35 (1.38)			60 (200)
LVIT-150/50-A/U	150 (5.91)	50 (1.97)			30 (100)
LVIT-175/70-A/U	175 (6.89)	70 (2.76)			100 (328)
LVIT-235/105-A/U	235 (9.25)	105 (4.13)			25 (82)

Note:
W, H = as supplied w, h = after free recovery. Maximum longitudinal change after free recovery: +5% -15%. Maximum eccentricity: 40% (as supplied).
Fit the larger size of LVIT if two sizes fit the required application. Material Safety data sheet available on request.
Products are also available in larger spool lengths.

ORDERING INFORMATION

PART DESCRIPTION	RECTANGULAR BUSBAR L+T mm (inches)		ROUND BUSBAR D mm (inches)	
	MIN.	MAX.	MIN.	MAX.
LVIT-30/10-A/U	17 (0.67)	39 (1.54)	11 (0.43)	25 (0.98)
LVIT-75/25-A/U	39 (1.53)	86 (3.39)	27 (1.06)	55 (2.17)
LVIT-100/35-A/U	59 (2.32)	117 (4.61)	38 (1.50)	75 (2.95)
LVIT-150/50-A/U	86 (3.39)	157 (6.18)	55 (2.17)	100 (3.94)
LVIT-175/70-A/U	117 (4.61)	190 (7.48)	75 (2.95)	120 (4.72)
LVIT-235/105-A/U	190 (7.48)	280 (11.02)	120 (4.72)	180 (7.09)



PRODUCT PERFOMANCE

KEY MATERIAL PROPERTIES	TEST METHOD	TEST REQUIREMENTS
Tensile Strength	ASTM D638	12 MPa min. (1740 psi)
Ultimate Elongation	ASTM D638	350% min.
Accelerated Aging 168 hrs at 150±2°C	ASTM D2671 ASTM D638	11 MPa min. (1600 psi) 200% min.
UV Weathering Resistance (1000 hrs)	ASTM G154	300% min.
Glow Wire	IEC 60695-2-11	960°C (1760°F)
Thermal Endurance	IEC 60216	125°C min. (257°F)
Volume Resistivity	ASTM D257	1.00 E+13 Ωcm min.
Dielectric Strength 2.0 mm (0.078 inches)	IEC 60243-1 Clause 9.2 ASTM D149	20 kV/mm min.

TEST REPORT

DOCUMENT REFERENCE	DESCRIPTION
PPR-3607	Material Qualification Report
PPR-3613	Product Qualification Report

INSTALLATION INSTRUCTIONS

DOCUMENT REFERENCE	DESCRIPTION
EPP-0513	Installation Instructions

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