



Raychem Busbar Insulation Tubing LVIT

Voltage Class 1 kV, Application Ø 11-180 mm

Product description

Raychem black, medium wall, flame retarded heat-shrinkable tubing LVIT is suitable for insulating busbars up to 1 kV. This highly flexible tubing can be used on a variety of curved and bent busbars of both circular and rectangular cross-section. Raychem tubing LVIT can be easily installed in a factory environment using an oven or in the field using a gas torch or hot air. Raychem tubing LVIT is manufactured in UV resistant material, making it suitable for both indoor and outdoor applications.

Applications

Raychem tubing LVIT is suitable for both enclosed and exposed busbars and for connections in switchgear, substations, motor control centers and other electrical equipment.

Features/benefits

- Compatible with all other products in the Raychem low voltage insulation range
- Flame retarded
- Continuous operating temperature rating up to 105 °C

- High shrink ratio reduces inventory and simplifies product selection
- Suitable for indoor and outdoor applications
- Electrical and mechanical performance are retained after cleaning with hydrocarbon solvent
- Good thermal emissivity and contact with busbars means no derating is needed
- Can be stored indefinitely at temperatures up to 50 °C without loss of performance
- UL approved

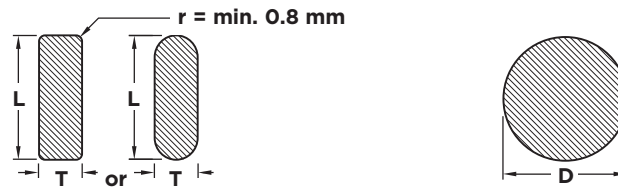
Raychem Low Voltage Busbar Insulation Tubing LVIT

Key product specifications	Test method	Requirement
Thermal endurance	IEC 216	105 °C min.
Low temperature flexibility	ASTM D2671 Procedure C	No cracking after 4 hrs @ -40 °C
Flammability	IEEE 27, ANSI C37.20, IEC 332, BS 4066	Self-extinguishing 60 sec max.
Water absorption	ISO 62, ASTM D570	24 hrs @ 23 °C, 0.2% max.
Resistance to transformer oil	VDE 0370	168 hrs @ 23 °C
-Tensile strength		11 MPa min.
-Ultimate elongation		300% min.

Note: For further product specification information see Raychem PPS 3010/06.

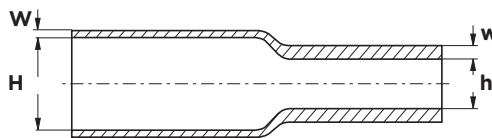
Product selection

Raychem tubing LVIT should normally be used on the following busbar sizes



Product size	Rectangular busbars, L+T (mm)		Round busbars, D (mm)	
	min.	max.	min.	max.
LVIT-30/10-A/U-4	17	39	11	25
LVIT-75/25-A/U-4	39	86	27	55
LVIT-100/35-A/U-4	59	117	38	75
LVIT-150/50-A/U-4	86	157	55	100
LVIT-175/70-A/U-4	117	190	75	120
LVIT-235/105-A/U-4	190	280	120	180

Ordering information



Ordering description	Dimensions (mm)				UOM: roll of length (m)
	H min.	h max.	W nom.	w min.	
LVIT-30/10-A/U-4	30	10	0.5	1.5	60
LVIT-75/25-A/U-4	75	25	0.5	1.5	30
LVIT-100/35-A/U-4	100	35	0.5	1.5	60
LVIT-150/50-A/U-4	150	50	0.5	1.5	30
LVIT-175/70-A/U-C	175	70	0.5	1.5	100
LVIT-235/105-A/U-4	235	105	0.5	1.5	25

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. Installation instructions EPP 0620 5/96 and Material Safety Data Sheet available on request.

Technical reports UVR 8148 -Qualification report for LVIT
 UVR 8153 -LVIT testing for Hong Kong Electric
 UVR 8165 -Damp heat cycling on LVIT

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