LVIT
Low voltage busbar insulation tubing
Voltage class 1 kV
Application Ø 11-100 mm

Product description
LVIT is a black, medium wall, flame retarded heat-shrinkable tubing 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.

LVIT tubing can be easily installed in a factory environment using an oven or in the field using a gas torch or hot air.

LVIT tubing is manufactured in UV resistant material, making it suitable for both indoor and outdoor applications.

Applications
LVIT is suitable for both enclosed and exposed busbars and for connections in switchgear, substations, motor control centres 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 to105°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

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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 -Tensile strength -Ultimate elongation	VDE 0370	168 hrs @ 23°C 11 MPa min. 300% min.

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

Product selection

LVIT should normally be used on the following busbar sizes

r = min. 0.8 mm
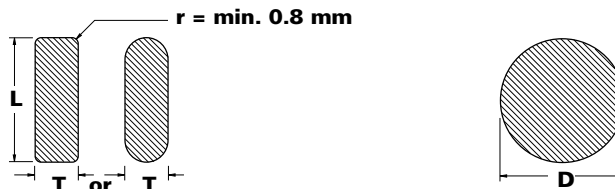
Product size	Rectangular busbars, L+T (mm)		Round busbars, D (mm)	
	min.	max.	min.	max.
LVIT 30/10-A/U	17	39	11	25
LVIT 75/25-A/U	39	86	27	55
LVIT 150/50-A/U	86	157	55	100
LVIT 235/105-A/U	190	280	120	180

Ordering information
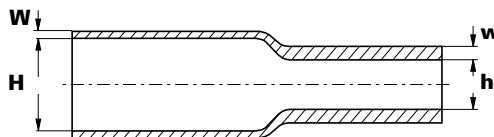
Ordering description	Dimensions (mm)				UOM: m
	H min.	h max.	W nom.	w min.	spool length
LVIT 30/10-A/U	30	10	0.5	1.5	60
LVIT 75/25-A/U	75	25	0.5	1.5	30
LVIT 150/50-A/U	150	50	0.5	1.5	30
LVIT 235/105-A/U	235	105	0.5	1.5	25

Note: Dimensions in mm unless otherwise stated. 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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MORLYNN INSULATORS **Raychem** SIMEL

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For more information and your country contact person, please visit us at:
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