

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 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

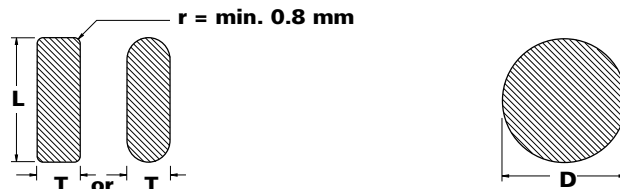


Key product specifications	Test method	Requirement
Thermal endurance	IEC 216	105°C min.
Low temperature flexibility	ASTM D2671 Procedure C	No cracking after 4 hrs @ -40°C
Flammability	IEEE 27, ANSI C37.20, IEC 332, BS 4066	Self-extinguishing 60 sec max.
Water absorption	ISO 62, ASTM D570	24 hrs @ 23°C, 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.

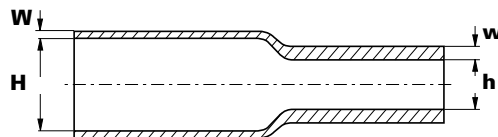
Product selection

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	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 spool length
	H min.	h max.	W nom.	w min.	
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

All of the above information, including drawings, illustrations and graphic designs, reflects our present understanding and is to the best of our knowledge and belief correct and reliable. Users, however, should independently evaluate the suitability of each product for the desired application. Under no circumstances does this constitute an assurance of any particular quality or performance. Such an assurance is only provided in the context of our product specifications or explicit contractual arrangements. Our liability for these products is set forth in our standard terms and conditions of sale. ALR, AMP, AXICOM, B&H, BOWTHORPE EMP, CROMPTON INSTRUMENTS, DORMAN SMITH, GURO, HELLSTERN, LA PRAIRIE, MORLYNN, RAYCHEM, and SIMEL are trademarks.



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[LVIT-75/25-A/U-UL \(B100\)](#)