



Features/Applications

GREMTUBE® GBBH-FR is a heavy wall, flame retardant, irradiated polyolefin heat shrink tubing. GREMTUBE® GBBH-FR offers high resistance to tracking and arcing (up to 36kV). GREMTUBE® GBBH-FR enhances the insulation performances of bus bars in switchgears and substations when flame retardant properties are required.

Various

Standard colour: Red.



Dimensions

Reference <i>GREMTUBE® GBBH-FR</i>	As supplied (mm)		After recovery (mm)		Standard Length (m)
	Inside Diameter Min. (D)	Inside Diameter Max. (d)	Inside Diameter Max. (d)	Wall Thickness Nom. (t)	
025,0	25,0	10,0	3,50	15	
030,0	30,0	12,0	3,60	15	
040,0	40,0	16,0	3,60	15	
050,0	50,0	20,0	3,60	15	
065,0	65,0	25,0	3,60	15	
075,0	75,0	30,0	3,70	15	
085,0	85,0	35,0	3,70	15	
100,0	100,0	40,0	3,70	15	
120,0	120,0	50,0	3,80	15	
150,0	150,0	60,0	3,80	15	
175,0	175,0	75,0	3,80	15	

•Cut pieces available on request

Product selection chart

Bus bar size (mm)	One bus bar layer	Two bus bar layers
20 x 3 / 25 x 3	25/10	30/12
30 x 3 / 30 x 4	30/12	40/16
30 x 10 / 40 x 4	40/16	50/20
40 x 10 / 50 x 5 / 50 x 6	50/20	65/25 (75/30)
50 x 8 / 50 x 10 / 60 x 6 / 60 x 8	65/25 (75/30)	75/30 (85/35)
60 x 10 / 80 x 6 / 80 x 8 / 80 x 10	75/30 (85/35)	100/40 (120/50)
100 x 8 / 100 x 10 / 100 x 12	100/40 (120/50)	120/50
100 x 15 / 120 x 10 / 120 x 12 / 120 x 15	120/50	150/60
150 x 12 / 150 x 15	150/60	175/75

Property		Values	Test Methods	
Physical	Working temperature	-40°C to +105°C	-	
	Tensile strength	Unaged	≥ 14 MPa	
	Elongation at break	Unaged	≥ 500%	ASTM D 2671
	Tensile strength	Aged (168h @ 136°C)	≥ 12 MPa	ASTM D 2671
	Elongation at break	Aged (168h @ 136°C)	≥ 400%	ASTM D 2671
	Heat shock	4h @ 200°C	No crack	ASTM D 2671
	Low temperature flexibility	4h @ -40°C	No crack	ASTM D 2671
Electrical	Thermal endurance	105°C	IEC 216	
	Dielectric strength (in insulation oil)	≥ 16 kV/mm	ASTM D 2671	
	Volume resistivity	≥ 10 ¹² Ω.cm	ASTM D 2671	
Chemical	Tracking and erosion resistance	1h @ 2,5 or 2,75 kV	No tracking ASTM D 2303	
	Copper corrosion	168h @ 158°C	No corrosion	IEC 60684-3
	Colour fastness to light	Exposed vs unexposed	Colour does not change	IEC 60684-3

Recommended storage conditions: Keep in cool, dry, ventilated storage (maximum temperature of 35°C) and in closed containers.



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Whilst every attempt is made to provide data that is as accurate as possible the values provided should be treated as a guide only. It remains the responsibility of the user to test the product and determine suitability. GREMTEK shall not be held responsible for any loss or defect resulting from incorrect, improper or inappropriate use of this product.