



Features/Applications

GREMTUBE® GBBM-FR is a medium wall, flame retardant, irradiated polyolefin heat shrink tubing. GREMTUBE® GBBM-FR offers high resistance to tracking and arcing (up to 24kV). GREMTUBE® GBBM-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® GBBM-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	2,50	25	
030,0	30,0	12,0	2,65	20 or 25	
040,0	40,0	16,0	2,65	20 or 25	
050,0	50,0	20,0	2,65	20 or 25	
065,0	65,0	25,0	2,85	20 or 25	
075,0	75,0	30,0	2,85	20 or 25	
085,0	85,0	35,0	2,85	20 or 25	
100,0	100,0	40,0	2,85	20 or 25	
120,0	120,0	50,0	2,85	20 or 25	
150,0	150,0	60,0	2,90	20 or 25	
175,0	175,0	75,0	2,90	20 or 25	

•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	≥ 11 MPa
Elongation at break		≥ 400%
Tensile strength	Aged (168h @ 136°C)	≥ 10 MPa
Elongation at break		≥ 300%
Heat shock	4h @ 200°C	No crack
Low temperature flexibility	4h @ -40°C	No crack
Thermal endurance	105°C	ASTM D 2671
Flammability	OI ≥ 27	ASTM D 2863
Electrical		
Dielectric strength (in insulation oil)	≥ 16 kV/mm	ASTM D 2671
Volume resistivity	≥ 10 ¹² Ω.cm	ASTM D 2671
Chemical		
Copper corrosion	168h @ 158°C	No corrosion
Colour fastness to light	Exposed vs unexposed	Colour does not change

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.