

# INSULTUBE<sup>RED</sup>™

## HEAT SHRINK INSULATION TUBE



Insultube is used in Power Cable Joints for MV Applications. These tubes are manufactured from high quality cross linked polyolefin material. Excellent Di-electric properties. Conforms to IEC 60684-3-247 standard. Halogen free, RoHS compliant. Customised dimensions, thickness, length & colours available on request.

### Technical Qualification Report : QR 1036

Technical Specification*		
PROPERTIES	VALUE	STANDARD
<b>Physical</b>		
Tensile Strength	12 N/mm <sup>2</sup> (Mpa) (min.)	ASTM D638
Ultimate Elongation	300% (min.)	ASTM D638
Longitudinal Change	-10% (max.)	ASTM D2671
Hardness	45 + 10 Shore D	ASTM D2240
Water Absorption	0.2% (max.)	ASTM D570
<b>Thermal</b>		
Accelerated Ageing	(120°C for 500 hrs.)	ASTM D2671
Tensile Strength	11 N/mm <sup>2</sup> (Mpa) (min.)	ASTM D638
Ultimate Elongation	250% (min.)	ASTM D638
Low Temperature Flexibility (-40°C for 4 hrs.)	No Cracking	ASTM D2671
Heat Shock (250°C for 30 min.)	No cracking or flowing	ASTM D2671
Shrink Temperature	125°C	IEC 216
Continuous Temperature Limit	-40°C to +110°C	
<b>Electrical</b>		
Dielectric Strength	22kV/mm. (min.)	ASTM D149
Volume Resistivity	1 x 10 <sup>14</sup> Ohm.cm (min.)	ASTM D257
Dielectric Constant	5 (max.)	ASTM D150

### Selection Chart

Code	D min. (mm)	d max. (mm)	T±10% (mm)
GRT 30/8	30	8	2.6
GRT 33/10	33	10	2.6
GRT 40/12	40	12	2.7
GRT 50/16	50	16	2.7
GRT 70/22	70	22	2.7
GRT 95/25	95	25	3.0
GRT 105/30	105	30	3.0
GRT 115/34	115	34	3.2
GRT 130/36	130	36	3.2

### Selection Chart (Heavy Wall)

Code	D min. (mm)	d max. (mm)	T±10% (mm)
GRT(HW) 30/8	30	8	3.0
GRT(HW) 33/10	33	10	3.0
GRT(HW) 40/12	40	12	4.0
GRT(HW) 50/16	50	16	4.0
GRT(HW) 70/22	70	22	4.0
GRT(HW) 95/25	95	25	4.0
GRT(HW) 105/30	105	30	4.0
GRT(HW) 115/34	115	34	4.0
GRT(HW) 130/36	130	36	4.0

### Selection Chart (Extra Heavy Wall)

Code	D min. (mm)	d max. (mm)	T±10% (mm)
GRT (EHW) 50/16	50	16	6.2
GRT (EHW) 70/22	70	22	6.2
GRT (EHW) 95/25	95	25	6.2
GRT (EHW) 105/30	105	30	6.2
GRT (EHW) 115/34	115	34	6.2
GRT (EHW) 130/36	130	36	6.2

D,d : Internal Diameter

D, d : Internal Diameter | T : Thickness

