

**INSULTUBE MEDIUM / HEAVY WALL HEAT SHRINKABLE TUBES**

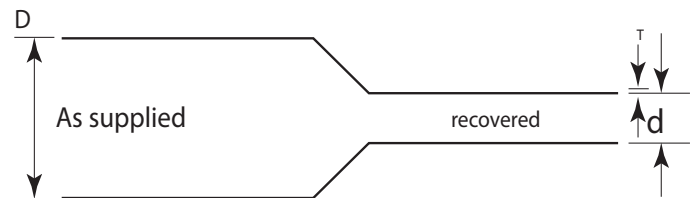
Insultube GMW and GHW are medium wall and heavy wall black tubing. Excellent resistance to weathering, UV rays, chemical and solvents, maximum cut length available upto 1500 mm. for tube size upto size 250mm. Optional hot melt adhesive lining for complete environmental protection and insulation.

**APPLICATION**

GMW tubes are used for environmental protection of low voltage cable termination and insulating the connectors for low voltage straight through joints/splice rated upto 3.3KV. GHW tubes are used for mechanical protection and outer sealing of underground straight through cable joints/ splice upto 36KV.

**MATERIAL**

Manufactured from high quality cross inked polyolefin


**TECHNICAL SPECIFICATION**

PROPERTIES	VALUE	STANDARD
<b>PHYSICAL</b>		
Tensile Strength	12 N/mm <sup>2</sup> (Mpa) (min.)	ASTM D638
Ultimate Elongation	350 % (min)	ASTM D 638
Density	1.15+ - 0.2 gm/cm <sup>3</sup>	ASTM D792
Hardness	45 +- 10 shore D	ASTM D2240
Water Absorption	0.5 %	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 D 638
Low temperature flexibility (-40oC for 4 Hrs.)	No Cracking	ASTM D2671
Heat shock (250 C for 30 mins.)	No Cracking or flowing	ESI 09-11
Shrink temperature	125 °C	IEC 216
Continuous temperature limit	- 40 to +100 °C	IEC 216
<b>ELECTRICAL</b>		
Dielectric Strength	15 KV/mm. (min)	ASTM D149
Volume Resistivity	1 x 10 <sup>14</sup> Ohm. cm	ASTM D257
Dielectric Constant	5 (max)	ASTM D150

**SELECTION CHART**

CODE	D min (mm)	d max (mm)	T+ -10% (mm)
GMW 10/3	10	3	1.5
GMW 12/4	12	4	1.8
GMW 19/6	19	6	2.0
GMW 22/6	22	6	2.3
GMW 27/8	27	8	2.5
GMW 30/8	30	8	2.6
GMW 33/10	33	10	2.6
GMW 40/12	40	12	2.7
GMW 50/16	50	16	2.7
GMW 70/22	70	22	2.7
GMW 90/28	90	28	3.0
GMW 105/30	105	30	3.0
GMW 115/34	115	34	3.2
GMW 130/36	130	36	3.2
GMW 140/42	140	42	3.2
GMW 160/50	160	50	3.3
GMW 180/55	180	55	3.3
GMW 200/60	200	60	3.5
GMW 250/70	250	70	3.5
GMW 320/90	320	90	3.5
GMW 375/110	375	110	3.5
GMW 425/120	425	120	3.5

CODE	D min (mm)	d max (mm)	T+ -10% (mm)
GHW 12/3	12	3	
GHW 19/6	19	6	
GHW 22/6	22	6	
GHW 30/8	30	8	
GHW 43/12	43	12	
GHW 51/16	51	16	
GHW 72/22	72	22	
GHW 85/25	85	25	
GHW 105/30	105	30	
GHW 120/36	120	36	
GHW 140/42	140	42	
GHW 160/50	160	50	
GHW 180/55	180	55	
GHW 200/60	200	60	
GHW 250/70	250	70	
GHW 320/90	320	90	
GHW 375/110	375	110	
GHW 425/120	425	120	