

## HIGH-SHRINK RATIO HEAT SHRINK TUBE



High-Shrink Ratio HS Tube (GMW 5x) is manufactured from high quality cross linked polyolefin material.

### ► Features & Benefits :

- ❖ High shrink ratio up to 5:1.
- ❖ Optional hot melt adhesive lining for complete environmental protection and insulation.
- ❖ Excellent resistance to weathering, UV rays, chemicals and solvents.
- ❖ Meets RoHS Compliance | Halogen Free.
- ❖ Meets IP 68 (Ingress Protection).

### ► Application :

- ❖ Ideal for applications where there is a large dimensional difference between the cables, connectors and components.
- ❖ Enables the tube to cover the large size transitions between cables, cable connectors and back shells, thus simplifying repairs of damaged cable as well as sealing the back end of the connectors.

### 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 D638
Density	1.0± 0.2 gm/cm <sup>3</sup>	ASTM D792
Longitudinal Change	-10% (max.)	ASTM D2671
Hardness	45 ± 10 Shore D	ASTM D2240
Water Absorption	0.5 % (max)	ASTM D570
<b>Thermal</b>		
Accelerated Ageing	(150°C for 168 Hrs.)	ASTM D2671
Tensile Strength	10 N/mm <sup>2</sup> (Mpa) (min)	ASTM D638
Ultimate Elongation	300% (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	ESI 09-11
Shrink Temperature	125°C	IEC 216
Continuous Temperature Limit	-40 to +110°C	IEC 216
<b>Electrical</b>		
Dielectric Strength (2mm Wall)	12 kV/mm. (min.)	ASTM D149
Volume Resistivity	1 x 10 <sup>17</sup> Ohm. cm (min.)	ASTM D257
Dielectric Constant	5 (max.)	ASTM D150
Weathering : The material from which Medium and Heavy wall tubings are manufactured contains carbon black to protect it from UV light.		

Technical Qualification Report : QR 1013

### Selection Chart :

Product Code	D min. (mm.)	d max. (mm.)	T +/- 10 % (mm.)
GMW 5x 30/6	30	6	4.3
GMW 5x 40/8	40	8	4.3
GMW 5x 50/10	50	10	4.3
GMW 5x 60/12	60	12	4.5
GMW 5x 75/15	75	15	4.5
GMW 5x 90/18	90	18	4.5
GMW 5x 105/21	105	21	5.0
GMW 5x 115/23	115	23	5.0
GMW 5x 130/26	130	26	5.0
GMW 5x 140/28	140	28	5.0
GMW 5x 160/32	160	32	5.0

\*All dimensions are in mm. | D : Body Diameter | d : Finger Diameter | s : As Supplied | f : After Free Recovery

