

SEMIRIGID ENCAPSULANT LINED HEAT SHRINKABLE TUBE

SHRINK RATIO 3:1

RoHS

AMS-DTL-23053/4 Class 1

E306685

GMT-301ALSR is a semi rigid encapsulate-lined high shrink ratio polyolefin heat shrinkable tube. It has excellent physical, chemical, and electrical properties. Few sizes cover a variety of diameters, which allows for inventory reduction



and coverage for irregular shapes. The encapsulant-line melts and flows when heated to fill in irregularities of substrates.

GMT-301ALSR Applications

Insulation and Strain Relief for Wire Terminations and Electrical Connections

Rugged Protection against Abrasion, Vibration, and Flexing

Cable & Connector Protection

Splash & Moisture Resistant: Not for use in Submersion Applications

Excellent Strain Relief in Weak Areas of Assemblies

Characteristics

Operating Temperature: -45° to 135° Celsius

Shrink Temperature: 120°

Flame Retardant (Except Clear)

Shrink Ratio: 3:1

Environmentally Friendly

Colors: Standard Packages Available in Black, Colors Available Upon Request

Specifications

Gamma	Inside Diameter				Total Wall Thickness	
Part No.	Minimum Expanded as Supplied		Maximum Recovered After Heating		After Heating	
W/ Size	mm	inch	mm	inch	mm	inch
GMT-301ALSR-1/8	3.2	0.125	0.6	0.023	0.96±0.15	0.038±0.006
GMT-301ALSR-3/16	4.8	0.187	1.5	0.06	1.09±0.15	0.043±0.006
GMT-301ALSR-1/4	6.4	0.25	2	0.08	1.19±0.15	0.047±0.006
GMT-301ALSR-3/8	9.5	0.375	3.4	0.135	1.27±0.18	0.050±0.007
GMT-301ALSR-1/2	12.7	0.5	5	0.195	1.39±0.18	0.055±0.007
GMT-301ALSR-3/4	19.1	0.75	8	0.313	1.65±0.18	0.065±0.007
GMT-301ALSR-1	25.4	1	10.2	0.4	1.90±0.18	0.075±0.007

Meltable Wall Specifications

After Heating	
mm	inch
0.51	0.02
0.64	0.025
0.69	0.027
0.76	0.03
0.89	0.035
1.02	0.04
1.02	0.04

Properties

Property	Test Method	Standard
Tensile Strength	ASTM D638	$\geq 10.4\text{MPa}$
Elongation at Break	ASTM D638	$\geq 200\%$
Longitudinal Shrinkage	UL224	$\leq 0.5\%$
Dielectric Strength	ASTM D150	$\geq 15\text{kv/mm}$
Volume Resistance	ASTM D876	$\geq 10^{14} \Omega \cdot \text{cm}$
Water Absorption	ASTM D570	$\leq 0.5\%$
Copper Stability	UL224	No Corrosion

Color Code: 0=BLK, 1=BRN, 2=RED, 3=ORN, 4=YLW, 5=GRN, 6=BLU, 7=VIO, 8=GRY, 9=WHT, X=CLR

P/N Example: GMT-321-3-0 = 3mm ID Black 3:1 Heat Shrink Tubing

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