



## MULTI-WALL POLYOLEFIN **HEAT SHRINKABLE TUBING**

# HS-101-MW-3:1

### FEATURES

- 3:1 shrink ratio
- Thin wall tubing with a thermoplastic, adhesive liner
- Greater shrink ratio allows for a broader range of applications
- Medium wall increases mechanical strength and cut-through resistance
- Bonds to a wide variety of plastics, rubbers and metals
- Flexible
- Provides a permanent, waterproof, environmental seal
- Flame retardant
- Meets UL and Military specifications



### USES

- Providing permanent, non-drying, bendable, water-resistant protection in harsh outdoor environments
- Automotive, truck and marine applications - protecting wire splices, and electrical connections from fluids, moisture and corrosion
- Repairing damaged wire and cable jacketing without removing connectors
- Quick and easy one-step electrical insulation and moisture sealing

### SPECIFICATIONS

- UL 224 (Jacket)
- SAE-AMS-DTL-23053/4 Class 3



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#### TECHNICAL DATA

- Shrink Ratio: 3:1
- Minimum Recommended Shrink Temperature: 121°C (250°F)
- Operating Temperature Range: -55°C to 110°C
- Longitudinal Shrinkage: +1 / -15%
- Physical / Electrical / Chemical Properties:
  - Specific Gravity: 1.3
  - Tensile Strength: 2100 psi
  - Ultimate Elongation: 450%
  - Secant Modulus: (2%) 17000 psi
  - Heat Aging\*: 168 hrs. @ 175° Elongation 175%
  - Heat Shock\*: 4 hrs. @ 225°C No dripping, cracking or flowing
  - Low Temperature Flexibility\*: 4 hrs. @ -55°C No cracking
  - Flammability: Self-extinguishing
  - Volume Resistivity: 10<sup>14</sup> ohm-cm
  - Dielectric Strength: 700 vpm
  - Corrosion Resistance: Non-corrosive
  - Fungus Resistance: Non-nutrient
  - Water Absorption: 0.3%
  - Fluid Resistance: Excellent

\* Outer Jacket Only

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Adhesive		
Property	Substrate	Typical Value
Peel Strength, pli	Polyethylene	30
	PVC	10
	Lead	15
	Aluminum	40
Corrosive Effect: Non-corrosive		

Size	Expanded I.D. Minimum		Recovered I.D. Maximum		Total Recovered Wall Thickness Nominal		Meltable Recovered Wall Thickness Nominal		Standard Packaging (per box) 4-Foot Lengths
	in.	mm	in.	mm	in.	mm	in.	mm	
1/8	.125	3.18	.040	1.02	.040	1.02	.020	0.51	1,000'
3/16	.187	4.75	.062	1.57	.040	1.02	.020	0.51	1,000'
1/4	.250	6.35	.080	2.03	.040	1.02	.020	0.51	800'
3/8	.375	9.53	.120	3.05	.055	1.40	.025	0.62	500'
1/2	.500	12.70	.160	4.06	.070	1.78	.030	0.76	300'
3/4	.750	19.05	.250	6.35	.085	2.16	.035	0.89	180'
1	1.000	25.40	.320	8.13	.100	2.54	.040	1.02	96'
1 1/2	1.500	38.10	.510	12.95	.100	2.54	.040	1.02	96'

- Standard Color: Black