



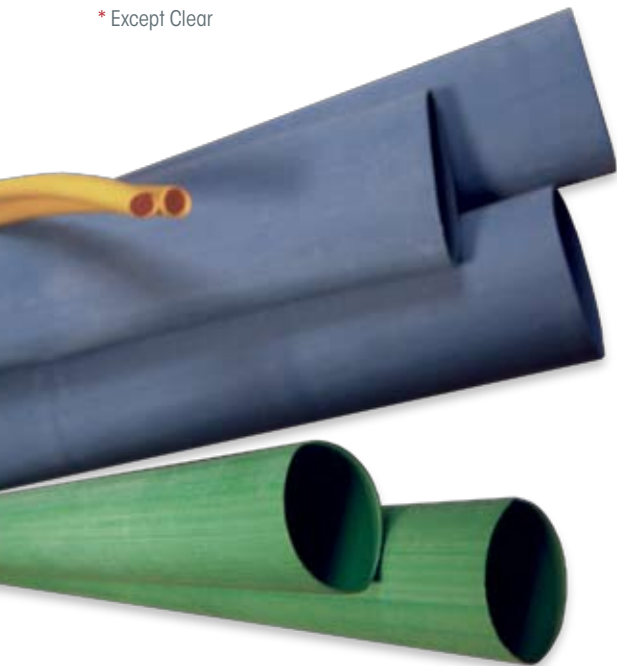
## POLYOLEFIN HEAT SHRINKABLE TUBING

# HS-101

### FEATURES

- 2:1 shrink ratio
- Excellent all purpose, highly flexible insulation
- Highly flame retardant\*
- Excellent chemical, physical and electrical properties
- Low shrink temperature
- Easily marked
- Superior resistance to abrasion
- Free of polybrominated biphenyls and polybrominated biphenyl oxides and ethers, which are classified as environmentally hazardous substances.
- Meets UL, CSA and Military specifications

\* Except Clear



### CROSS REFERENCE GUIDE FOR INSULTAB'S HS-101 POLYOLEFIN

Raychem	RNF-100	VERSAFIT
3M	FP-301	FP-301VW
Sumitomo	B2	A2
Alpha	FIT-221	FIT-221V
Canusa	CPX-100	
Manhattan Cole-Flex	ST-221	STS-221
Panduit	HSTT	
Essex	ASTRATITE-AF	
Ico-Rally	HIX - CLASS 1,2	

### USES

- Insulation and strain relief of wire splices, terminals and wire connections
- Electrical insulation and protection of in-line components
- Bundling wires for flexible, light-duty harnesses
- Color coding or identifying wire, cables, terminals and components
- Commercial and military applications

### SPECIFICATIONS

- UL Subject 224 VW-1
- CSA OFT rated for 600 V
- SAE-AMS-DTL-23053/5 Classes 1 & 3 (Colors)
- SAE-AMS-DTL-23053/5 Class 2 (Clear)



## POLYOLEFIN HEAT SHRINKABLE TUBING

### HS-101

#### TECHNICAL DATA

- Shrink Ratio: 2:1
- Minimum Recommended Shrink Temperature: 90°C (194°F)
- Operating Temperature Range: -55°C to 135°C
- Longitudinal Shrinkage: +1 / -5%  
MIL Class 1 & 2: +/-5%  
MIL Class 3: +1/-10%
- Physical / Electrical / Chemical Properties:  
Specific Gravity: 1.35 max. Colors only  
Tensile Strength: 1500 psi min.  
Ultimate Elongation: 200% min.  
Secant Modulus: 2.5 X 10<sup>4</sup> psi max  
Heat Aging: 7 days @ 158°C Elongation 100%  
Heat Shock: 4 hrs. @ 250° C  
Low Temperature Flexibility: 4 hrs. @ -55°C No cracking  
Flammability: UL Subject 224 VW-1  
Volume Resistivity: 10<sup>14</sup> ohm-cm min.  
Dielectric Strength: 500 vpm  
Corrosion Resistance: Non-corrosive  
Water Absorption (Recovered): 24 hrs. @ 23°C 0.5% max.
- Product may include identical HS-101-I and HS-101-R designations

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Size	Expanded I.D. Minimum		Recovered I.D. Maximum		Recovered Wall Nominal		Standard Packaging (per box) Product on Spools		4-foot Lengths
	in.	mm	in.	mm	in.	mm	ft. / Spool	Total ft. / Box	Total ft. / Box
3 / 64	.046	1.17	.023	0.58	.016	0.41	1,000'	3,000'	1,000'
1 / 16	.063	1.60	.031	0.79	.017	0.43	1,000'	3,000'	1,000'
3 / 32	.093	2.36	.046	1.17	.020	0.51	500'	1,500'	1,000'
1 / 8	.125	3.18	.062	1.57	.020	0.51	500'	1,500'	1,000'
3 / 16	.187	4.75	.093	2.36	.020	0.51	250'	750'	1,000'
1 / 4	.250	6.35	.125	3.18	.025	0.64	200'	600'	800'
3 / 8	.375	9.53	.187	4.75	.025	0.64	200'	600'	500'
1 / 2	.500	12.70	.250	6.35	.025	0.64	200'	600'	400'
3 / 4	.750	19.05	.375	9.53	.030	0.76	200'	600'	200'
1	1.000	25.40	.500	12.70	.035	0.89	100'	300'	96'
1 1 / 4	1.250	31.75	.625	15.87	.040	1.02	100'	300'	96'
1 1 / 2	1.500	38.10	.750	19.05	.040	1.02	100'	200'	96'
2	2.000	50.80	1.000	25.40	.045	1.14	100'	200'	96'
3	3.000	76.20	1.500	38.10	.050	1.27	50'	50'	48'
4	4.000	101.60	2.000	50.80	.055	1.40	50'	50'	48'

- Standard Colors: Black, Clear, White, Red, Yellow, Green, Blue