Heat Shrinkable Tubing

Thermo-Shrink® Heat Shrinkable Tubing Specifications

Properties	Thin Wall	Heavy Wall	End Caps
Shrink Temperatures	120°C to 250°C (200°C recommended)	120°C to 250°C (200°C recommended)	120°C to 250°C (200°C recommended)
Continuous Operating Temperature	-55°C to 135°C	-55°C to 110°C	-55°C to 110°C
Tensile Strength (PSI)	2,200 PSI min. 2,000 PSI min. (1/4 in.)	2,100 PSI min.	2,100 PSI
Ultimate Elongation	400% min.	600% min.	600% min.
Secant Modulus @ 2% Strain	25,000 PSI max.	25,000 PSI max.	N.A.
Specific Gravity	1.30 max.	1.20 max.	1.10 max.
Heat Aging, 168 hrs. @ 175°C Tensile Strength Elongation	350%	500%	500%
Heat Shock, 4 hrs. @ 225°C	No cracks, flowing or dripping	No cracks, flowing or dripping	No cracks, flowing or dripping
Flammability	Self-extinguishing	Self-extinguishing	Self-extinguishing
Low Temperature Brittle Point	-55°C	-55°C	-55°C
Volume Resistivity	10^{14}ohm-cm min.	10^{13}ohm-cm min.	10^{14}ohm-cm min.
Dielectric Strength	600V/mil min.	500V/mil min.	500V/mil min.
Corrosive Effect	Non-corrosive	Non-corrosive	Non-corrosive
Solvent Resistance 24 hrs. Immersion per MIL-DTL-23053	Good to excellent	Good to excellent	Good to excellent
Water Absorption	0.5%	0.5%	0.2%
Fungus Resistance	No growth	No growth	No growth
Longitudinal Change, 3 min.	+1%/-10%	+1%/-10%	+1%/-10%

All values are typical performance data and are not to be used as design data

Thermo-Shrink® Thin-Wall Heat Shrinkable Tubing Disks

- Space-saving, no-waste dispenser holds up to four feet of thin-wall tubing
- TS-46 irradiated cross-linked polyolefin with 2:1 standard shrink ratio
- Forms tough, smooth insulated covering resistant to common fluids and solvents
- Flame-retardant material
- Meets UL 224, 125°C; CSA C22.2 No. 198.1, 125°C; MIL-DTL-23053/5 Class 1 & 2; AMS 3636 & 3637; DEF STAN 59-97, Issue 3, Type 2a
- Continuous operating temperature from -55°C to 135°C
- Shrink temperature of 120°C

Tubing Size (Inches)	Expanded I.D. (Min.)	Recovered I.D. (Max.)	Wire Size*	Nominal Recovered Wall Thickness	Cat. No.
3/64	.046	.023	22-18 AWG	.018	**46-600**
1/16	.063	.031	16 AWG	.018	**46-601**
3/32	.093	.046	14-12 AWG	.020	**46-602**
1/8	.125	.062	24-20 AWG	.020	**46-603**
3/16	.187	.093	20-14 AWG	.020	**46-604**
1/4	.250	.125	14-8 AWG	.025	**46-605**
5/16	.312	.156	4-1 AWG	.025	**46-606**
3/8	.375	.187	8-4 AWG	.025	**46-607**
1/2	.500	.250	4-1 AWG	.025	**46-608**
3/4	.750	.375	2-250 KCMIL	.030	**46-609**
1	1.000	.500	2/0-500 KCMIL	.035	**46-610**

*Consult the wire manufacturer's catalog for specific O.D. of wire and insulation

Thermo-Shrink® Underground Splices

- Direct burial rated
- Heavy-wall heat shrinkable tubing – TS-46 irradiated cross-linked polyolefin with 3:1 standard shrink ratio
- Adhesive liner provides complete insulation and protection
- Simple one-piece design saves time and money

Description	Cat. No.
U.F. Splice Kit (UL Listed) – 14 to 8 AWG	**46-400**
Al/Cu Underground Splice Kit – 8 to 2 AWG, 600V	**46-401**
Underground Splice Kit – 4 AWG to 1/0, 600V	**46-402**
Underground Splice Kit – 1/0 to 250 KCMIL, 600V	**46-403**