

PTFE Heat Shrink Tubing

Thin Wall

pro-POWER

RoHS
Compliant



Descriptions:

Is a single thin wall heat shrinkable PTFE tubing. Upon the application of heat in excess of 350°C the tubing shrinks and conforms to the geometry of the part to be covered. Stiffness, combined with chemical inertness, makes it an excellent strain relief for high temperature electrical connections with contaminated environments

Features:

- Virgin Polytetrafluoroethylene resin
- 2:1 Shrink Ratio
- Chemically inert
- Lowest coefficient of friction
- Superior dielectric strength
- Exceptional heat resistance
- Self extinguishing
- Non-wetting

Applications

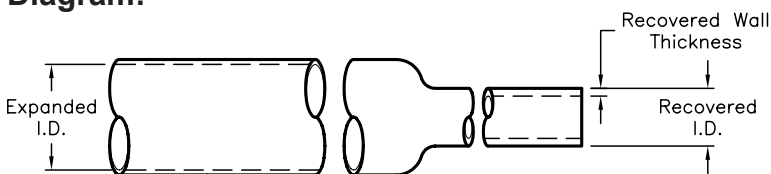
- Electrical Insulation
- Protective Cover
- Electronic Harness
- Laboratory

Specifications:

| | |
|--------------------------|---|
| Colour | : Translucent to opaque white |
| Shrinkage Longitudinal | : $\pm 20\%$ |
| Dielectric Strength | : $> 1,400\text{V/MIL}$ |
| Dielectric Constant | : 2.2 @ 100 Hz to 60 MHz |
| Volume Resistivity | : $> 10\Omega^{18}$ CM Min. |
| Tensile Strength | : 2,000 PSI Min. |
| Specific Gravity | : 2.13 to 2.2 g/cm ² |
| Min. Shrink Temperature | : 350°C (662°F) |
| Operating Temperature | : -75°C (-100°F) to +260°C (+500°F) |
| Applicable Specification | : AMS-DTL-23053/12A Class 3, AMS 3585, ASTM D2902, Type 1 |
| Water Absorption | : $\leq 0.01\%$ |
| Flammability | : Resin UL94V-0 |
| Flexibility | : 2 (Material is rated on scale of 1 to 10 for Flexibility 1 = Most Flexible and 10 = Most Rigid) |

Excellent fungus, Oil, acid, and solvent resistance

Diagram:



PTFE Heat Shrink Tubing

Thin Wall



| Dimensions | | | | Standard Packages | | | | | |
|------------|-----------------------------|-----------------------------|---|-------------------|------|----------------------|-----------------------|------|----------------------|
| Size AWG | Inside Diameter | | Recovered Nominal Wall Thickness (Inches) | 2 Foot Lengths | | | 6 Inch Lengths | | |
| | Expanded I.D. (Min.) Inches | Expanded I.D. (Max.) Inches | | Part Number | Pcs. | Total Footage (feet) | Part Number | Pcs. | Total Footage (feet) |
| 16 | 0.093 | 0.061 | 0.012 ±0.003 | TTS-S16-2050-NAT | 50 | 100 | TTS-S16-6016-NAT | 16 | 8 |
| 16 | 0.093 | 0.061 | 0.012 ±0.003 | - | - | - | TTS-S16-6016-NAT-BULK | 500 | 250 |
| 14 | 0.12 | 0.072 | 0.012 ±0.003 | TTS-S14-2050-NAT | 50 | 100 | TTS-S14-6014-NAT | 14 | 7 |
| 12 | 0.15 | 0.089 | 0.012 ±0.003 | TTS-S12-2025-NAT | 25 | 50 | TTS-S12-6014-NAT | 14 | 7 |
| 10 | 0.191 | 0.112 | 0.012 ±0.003 | TTS-S10-2025-NAT | 25 | 50 | TTS-S10-6012-NAT | 12 | 6 |
| 8 | 0.24 | 0.141 | 0.015 ±0.004 | TTS-S08-2025-NAT | 25 | 50 | TTS-S08-6010-NAT | 10 | 5 |
| 6 | 0.302 | 0.178 | 0.015 ±0.004 | TTS-S06-2010-NAT | 10 | 20 | TTS-S06-6008-NAT | 8 | 4 |
| 4 | 0.37 | 0.224 | 0.015 ±0.004 | TTS-S04-2010-NAT | 10 | 20 | TTS-S04-6006-NAT | 6 | 3 |
| 2 | 0.43 | 0.278 | 0.015 ±0.004 | - | - | - | TTS-S02-6004-NAT | 4 | 2 |
| 0 | 0.47 | 0.347 | 0.015 ±0.004 | TTS-S00-2010-NAT | 10 | 20 | TTS-S00-6003-NAT | 3 | 1.5 |

Part Number Table

| Description | Part Number |
|------------------------------------|-----------------------|
| PTFE Heat Shrink Tubing, Thin Wall | TTS-S16-2050-NAT |
| | TTS-S14-2050-NAT |
| | TTS-S12-2025-NAT |
| | TTS-S10-2025-NAT |
| | TTS-S08-2025-NAT |
| | TTS-S06-2010-NAT |
| | TTS-S04-2010-NAT |
| | TTS-S00-2010-NAT |
| | TTS-S16-6016-NAT |
| | TTS-S16-6016-NAT-BULK |
| | TTS-S14-6014-NAT |
| | TTS-S12-6014-NAT |
| | TTS-S10-6012-NAT |
| | TTS-S08-6010-NAT |
| | TTS-S06-6008-NAT |
| | TTS-S04-6006-NAT |
| TTS-S02-6004-NAT | |
| TTS-S00-6003-NAT | |

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