

Heat Shrink Tubing - 2:1 Single Wall Polyolefin

Durable, flexible, and flame-retardant Kable Kontrol polyolefin 2:1 heat shrink tubing can be used for electrical insulation, wire bundling, color coding, lightweight harnessing, wire strain relief, and wire identification purposes in a variety of home, commercial, industrial and military applications. Kable Kontrol 2:1 heat shrink tubing slides easily over small inline splices and connectors, and shrink down to 50% of its original diameter to fit snugly over any wire, hose or cable management project. Also, polyolefin heat shrink tubing is the ideal way to terminate the ends of your Braided Sleeving, creating a tight, professional finish. Self-extinguishing heat shrink tubing is in compliance with RoHS, the European directive on the Restriction of Hazardous Substances. This thin wall, 2:1 heat shrink tubing is made from a specially formulated, cross-linked polyolefin. Order heat shrink tubing rolls in your choice of length diameter and color.

- **UL Listed, File E536025**
- **RoHS Compliant**
- **Only Black Are UV Resistant**
- **194°F (90°C) Shrink Temperature**
- **-67°F to 275°F (-55°C to 135°C) Operating Temperature Range**
- **Flame Retardant (Except Clear Color)**
- **Meets Military Specification M23053/5 Class 1 & Class 3 (Only Clear is Class 2)**
- **Meets SAE Specification AS23053/5 Class 1 & Class 3 (Only Clear is Class 2)**

| Property | Test Method | Typical Performance |
|---|--------------------|--------------------------------|
| Tensile Strength (MPa) | ASTM D2671 | ≥10.4 |
| Ultimate Elongation (%) | ASTM D2671 | ≥ 200 |
| Tensile strength after heat aged (Mpa) | 1 75°CX168h | ≥7.3 |
| Ultimate elongation after heat aged (%) | 1 75°CX168h | ≥100 |
| Longitudinal Change | ASTM D2671 | -5%~+5% |
| Flammability | ASTM D2671C method | VW-1 |
| Voltage Withstands | UL 224, 2500V, 60s | No breakdown |
| Heat Shock | UL 224 ,250°C×4h | No cracks, flowing or dripping |
| Dielectric Strength (kV/mm) | ASTM D 149 | ≥19.7 |
| Volume Resistivity (Ω·cm) | ASTM D 876 | ≥ 10 ¹⁴ |

| Nominal Size | Expanded | | Recovered | | | | Mil Spec# | |
|-----------------|-----------------|------|-----------------|------|------------------------|------|-------------------|-------------|
| | Inside Diameter | | Inside Diameter | | Minimum Wall Thickness | | | |
| | in | mm | in | mm | in | mm | AMS-DTL- 23053/5- | |
| 3/64" | 0.046 | 1.2 | 0.023 | 0.58 | 0.018 | 0.45 | 101 and 301 | 201 (Clear) |
| 1/16" | 0.063 | 1.6 | 0.031 | 0.79 | 0.018 | 0.45 | 102 and 302 | 202 (Clear) |
| 3/32" | 0.093 | 2.4 | 0.046 | 1.17 | 0.019 | 0.50 | 103 and 303 | 203 (Clear) |
| 1/8" | 0.125 | 3.2 | 0.062 | 1.57 | 0.019 | 0.50 | 104 and 304 | 204 (Clear) |
| 3/16" | 0.187 | 4.8 | 0.093 | 2.36 | 0.019 | 0.50 | 105 and 305 | 205 (Clear) |
| 1/4" | 0.250 | 6.4 | 0.125 | 3.18 | 0.026 | 0.65 | 106 and 306 | 206 (Clear) |
| 3/8" | 0.375 | 9.5 | 0.187 | 4.75 | 0.026 | 0.65 | 107 and 307 | 207 (Clear) |
| 1/2" | 0.5 | 12.7 | 0.25 | 6.35 | 0.026 | 0.65 | 108 and 308 | 208 (Clear) |
| 5/8" | 0.625 | 15.9 | 0.3125 | 7.5 | 0.029 | 0.75 | - | - |
| 3/4" | 0.75 | 19.1 | 0.37 | 9.35 | 0.029 | 0.75 | 109 and 309 | 209 (Clear) |
| 1" | 1.00 | 25.4 | 0.5 | 12.7 | 0.039 | 1.00 | 110 and 310 | 210 (Clear) |
| 1-1/4" | 1.26 | 32.2 | 0.63 | 16 | 0.043 | 1.10 | - | - |
| 1-1/2" | 1.50 | 38.1 | 0.75 | 19 | 0.043 | 1.10 | 111 and 311 | 211 (Clear) |
| 2" | 2 | 50.8 | 1 | 25.4 | 0.045 | 1.15 | 112 and 312 | 212 (Clear) |
| 3" | 3 | 76.2 | 1.5 | 38.1 | 0.062 | 1.60 | 113 and 313 | 213 (Clear) |
| 4" | 4.01 | 102 | 2 | 50.8 | 0.062 | 1.60 | - | - |