

Polyolefin Heat-Shrink Tubing

FITCOTUBE® FT100

High-quality, flexible, self-extinguishing heat-shrink tubing universally applicable. Use as insulation, mechanical relief of wires and cables, protection against environmental influences and labelling via different colors.

| | |
|----------------------------------|---|
| Operating temperature: | -55°C to + 135°C, short time +250°C |
| Shrink temperature: | +90° C |
| Shrink ratio: | 2 : 1 |
| Standard colors: | Black, White, Red, Yellow, Blue Other colors on request |
| Approvals/Specifications: | UL 224 125°C 600V VW-1 (File No. E191514); Mil Spec. M23053/5 class 1 & 3 |



| Description | Inner diameter (mm) | | Wall thickness (mm) |
|-------------|---------------------|------------------------|------------------------|
| | as supplied (min.) | after shrinkage (max.) | after shrinkage (nom.) |
| FT100-120 | 1.20 | 0.60 | 0,34 – 0,48 |
| FT100-160 | 1.60 | 0.80 | 0,36 – 0,50 |
| FT100-240 | 2.40 | 1.20 | 0,44 – 0,58 |
| FT100-320 | 3.20 | 1.60 | 0,44 – 0,58 |
| FT100-480 | 4.80 | 2.40 | 0,44 – 0,58 |
| FT100-640 | 6.40 | 3.20 | 0,57 – 0,71 |
| FT100-950 | 9.50 | 4.75 | 0,57 – 0,71 |
| FT100-1270 | 12.70 | 6.40 | 0,57 – 0,71 |
| FT100-1910 | 19.10 | 9.50 | 0,69 – 0,83 |
| FT100-2540 | 25.40 | 12.70 | 0,77 – 1,01 |
| FT100-3810 | 38.10 | 19.10 | 0,87 – 1,17 |
| FT100-5100 | 50.80 | 25.40 | 0,97 – 1,31 |
| FT100-7620 | 76.20 | 38.10 | 1,07 – 1,47 |
| FT100-10200 | 101.60 | 50.80 | 1,18 – 1,62 |

Packaging: On spools. Special sizes cut lengths or printed tubing on request.

Polyolefin Heat-Shrink Tubing

FITCOTUBE® FT100

| Properties | Test Method | Requirements | Typical Value |
|--|-------------|------------------------------------|-------------------------------|
| Mechanical | | | |
| Tensile strength | ASTM D 638 | Min. 14.0 MPa | ≥ 14 MPa |
| Ultimate elongation | ASTM D 638 | Min. 200 % | ≥ 400 % |
| Longitudinal change | SAE-AS23053 | Max. ± 5% | 0 to -2 % |
| Secant modulus | ASTM D 882 | Max. 173 MPa | 65 MPa |
| Specific density | ASTM D 792 | Max. 1.35 | 1.34 |
| Thermal | | | |
| Low temperature flexibility (4h x -55°C) | SAE-AS23053 | No cracking | Pass |
| Heat shock (4h x 250°C) | SAE-AS23053 | No cracking, flowing or dripping | Pass |
| Elongation after long term aging (168h x 175°C) | SAE-AS23053 | No cracking | Pass |
| Flammability | UL 224 | VW-1 | Pass |
| Electrical | | | |
| Dielectric strength | ASTM D 876 | Min. 19.7 kV/mm | ≥ 30 kV/mm |
| Volume resistance | ASTM D 876 | Min. 10 ¹⁴ Ω x cm | 3.1 x 10 ¹⁴ Ω x cm |
| Nominal voltage | UL 224 | - | 600 V |
| Breakdown test | UL 224 | No breakthrough | Pass |
| Chemical | | | |
| Water absorption | ASTM D 570 | Max. 0.5 % | 0.25 % |
| Fungus resistance | SAE-AS23053 | ASTM G21 | Pass |
| Ozone resistance | NF F 00-608 | No cracking or perspiring | Pass |
| Colour stability (24h x 175°C) | SAE-AS23053 | No change | Pass |
| Copper corrosion (16h x 175°C) | SAE-AS23053 | No corrosion | Pass |
| Fluid resistance (24h x 23°C) | SAE-AS23053 | Min. 6.9 MPa (Tensile strength) | 7.25 – 14 MPa |