

Polyolefin Heat-Shrink Tubing

FITCOTUBE[®] FT400

Flexible, flame resistant Polyolefin-tube with high shrink ratio. Because of the high shrink rate of 4: 1 its particularly suitable for repair of cable assemblies without disassembling any connectors. Protection, insulation and mechanical strain relief of wires, cables and devices with large differences in diameter.

| Operating temperature: | - 55°C to +135°C, short time up to + 250°C | |
|------------------------|--|--|
| Shrink temperature: | + 90° C | |
| Shrink ratio: | 4:1 | |
| Standard colors: | Black. Other colors on request. | |
| | | |



| Description | Inner diameter (mm) | | Wall thickness (mm) |
|-------------|---------------------|----------------------------|----------------------------|
| | as supplied (min.) | after full recovery (max.) | after full recovery (nom.) |
| FT400-2540 | 25.40 | 6.60 | 1.52 |
| FT400-3810 | 38.10 | 9.50 | 1.52 |
| FT400-5040 | 50.80 | 12.70 | 1.52 |
| FT400-7620 | 76.20 | 19.10 | 1.52 |
| FT400-10160 | 101.60 | 25.40 | 1.52 |

| Packaging: | Up to and including size 5040: size 7620 and 10160: Special sizes on request. | 1.2-meter-lengths. 0.9-meter-lengths. |
|------------------|--|--|
| Processing note: | Care for clean and accurate cutting edge. Start shrinkage on the end. Pre-heat metal body. | |

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| Attributes | Testing | Requirements | Value |
|---------------------|-------------------|---------------|---------|
| Mechanical | | | |
| Tensile Strength | ASTM D 638 | min. 10.4 MPa | ≥12 MPa |
| Ultimate Elongation | ASTM D 638 | min. 200 % | ≥ 400 % |
| Longitudinal Change | SAE-AMS-DTL-23053 | ± 5 % | ± 3 % |
| Specific Gravity | ASTM D 792 | max. 1.35 | 1.34 |
| Elastic Modulus | ASTM D 882 | max. 173 MPa | 65 MPa |

Thermal

| Low temperature flexibility (- 55 °C x 4h) | SAE-AMS-DTL-23053 | no cracking | pass |
|---|-------------------|---------------------------|-------|
| Elongation after heat ageing (175°C x 168h) | SAE-AMS-DTL-23053 | min. 100 % | 420 % |
| Sort term ageing (250°C x 4h) | SAE-AMS-DTL-23053 | no flowing or dripping | pass |
| Colour stability (175°C x 24h) | SAE-AMS-DTL-23053 | unchanged | pass |
| Flammability | UL 224 | VW-1 (self-estinguishing) | pass |

Electrical

| Dielectric Strength | ASTM D 876 | min. 19.7 kV/mm | ≥ 37 kV/mm |
|---------------------|------------|----------------------------|-----------------------------|
| Volume Resistivity | ASTM D 876 | min. 10 ¹⁴ Ω/cm | 3.1 x 10 ¹⁴ Ω/cm |

Chemical

| Copper Corrosion (150°C x 16h) | SAE-AMS-DTL-23053 | no corrosion | pass |
|-----------------------------------|-------------------|--------------|--------|
| Water absorption | ASTM D 570 | max. 0.5 % | 0.25 % |
| Fungus Resistance | SAE-AMS-DTL-23053 | ASTM G 21 | pass |

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