

Thinwalled Elastomer Heat-Shrink Tubing

FITCOTUBE® FT-R25(TW)

Fuel-resistant elastomer shrink tube with excellent protection and abrasion properties. Used for reliable insulation, as well as for mechanical and electrical protection of cables, especially in the areas of aircraft construction, military and marine.

| | |
|-------------------------------|---------------------------------|
| Operating temperature: | - 75°C to + 150°C |
| Shrinking temperature: | + 165°C |
| Shrink ratio: | 2:1 |
| Standard color: | Black (other colors on request) |



| Description | Inner diameter (mm) | | Wall thickness (mm) |
|-----------------|---------------------|------------------------|------------------------|
| | Ass supplied (min.) | After shrinking (max.) | After shrinking (nom.) |
| FT-R25(TW)-240 | 2,40 | 1,20 | 0,40 - 0,60 |
| FT-R25(TW)-320 | 3,20 | 1,60 | 0,40 - 0,60 |
| FT-R25(TW)-480 | 4,80 | 2,40 | 0,40 - 0,60 |
| FT-R25(TW)-640 | 6,40 | 3,20 | 0,50 – 0,80 |
| FT-R25(TW)-950 | 9,50 | 4,80 | 0,50 – 0,80 |
| FT-R25(TW)-1270 | 12,70 | 6,40 | 0,50 – 0,80 |
| FT-R25(TW)-1900 | 19,00 | 9,50 | 0,60 – 0,90 |
| FT-R25(TW)-2540 | 25,40 | 12,70 | 0,75 – 1,05 |
| FT-R25(TW)-3150 | 31,50 | 15,00 | 0,80 – 1,20 |
| FT-R25(TW)-3800 | 38,00 | 19,00 | 0,80 – 1,20 |
| FT-R25(TW)-5100 | 51,00 | 25,40 | 0,90 – 1,40 |

Packaging: On Spools.
Cut and printed lengths on request.

Processing note: Care for clean and accurate cutting edge.
Start shrinkage on the end.
Pre-heat metal body.

Note: SAE-AMS-DTL 23053/16 does not require thin wall dimensions.

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| Attributes | Testing | Requirements | Value |
|--|---------------------------------|--------------------------------------|-------------------------|
| Mechanical | | | |
| Longitudinal Change | SAE-AS23053 | ± 10% | Pass |
| Tensile strength | SAE-AS23053 | Min. 11,7 MPa | ≥ 17 MPa |
| Ultimate Elongation | SAE-AS23053 | Min. 250% | ≥ 400% |
| Thermal | | | |
| Heat Shock (200°C x 4h) | SAE-AS23053 | No crack, flowing or dripping | Pass |
| Elongation after long-term aging (150°C x 168h) | SAE-AS23053 | Min. 200% | ≥ 300% |
| Tensile strength after long-term aging (150°C x 168h) | SAE-AS23053 | Min. 10,4 MPa | ≥ 12 MPa |
| Low temperature flexibility (-75°C x 4h) | IEC 60684-3-271 | No cracking | -75°C x 4h |
| Copper Corrosion | SAE-AS23053 | No corrosion | Pass |
| Electrical | | | |
| Volume resistivity | SAE-AS23053 | Min. 10 ⁹ Ωxcm | ≥ 10 ¹¹ Ωxcm |
| Dielectric strength | SAE-AS23053 | Min. 11,9 kV/mm | ≥ 18 kV/mm |
| Chemical | | | |
| Flammability | ASTM D 2671 | Procedure B | Pass |
| Water absorption | ASTM D 570 | Max. 2,0% | ≤ 1,4% |
| Fluid resistance (24°C x 24h) | SAE-AS23053 with Diesel fuel | Min. 10,4 MPa (Tensile strength) | ≥ 14 MPa |
| Fluid resistance (24°C x 24h) | SAE-AS23053 with Diesel fuel | Min. 200% (Elongation) | ≥ 320% |
| Fluid resistance (23°C x 24h) | SAE-AS23053 with Diesel fuel | Min. 7,9 kV/mm (Dielectric strength) | ≥ 13 kV/mm |
| Fungus resistance | SAE-AS23053 | ASTM G 21 | Pass |
| Ozone resistance | NF F 00-608 | No cracking or sweating | Pass |