

PTFE-Insulation sleeve

FITCO® - Iso-PTFE

Semi-rigid, abrasion-resistant, flame retardant hose for reliable insulation and excellent mechanical protection of cables and components. Applicable at high ambient temperatures. Good chemical resistance.

Operating temperature: - 200°C to + 260°C

Standard color: transparent, other colors on request

| Description | Inner diameter (mm) | | | Wall thickness (mm) | | |
|------------------------|---------------------|------|------|---------------------|--------------|--------------|
| | nominal | min. | max. | thick | normal | thin |
| FITCO® Iso PTFE AWG 0 | 8.40 | 8.26 | 8.81 | 0.51 ± 0.100 | 0.38 ± 0.075 | 0.25 ± 0.075 |
| FITCO® Iso PTFE AWG 1 | 7.50 | 7.34 | 7.9 | 0.51 ± 0.100 | 0.38 ± 0.075 | 0.25 ± 0.075 |
| FITCO® Iso PTFE AWG 2 | 6.70 | 6.55 | 7.06 | 0.51 ± 0.100 | 0.38 ± 0.075 | 0.25 ± 0.075 |
| FITCO® Iso PTFE AWG 3 | 6.00 | 5.82 | 6.32 | 0.51 ± 0.100 | 0.38 ± 0.075 | 0.25 ± 0.075 |
| FITCO® Iso PTFE AWG 4 | 5.30 | 5.18 | 5.69 | 0.51 ± 0.100 | 0.38 ± 0.075 | 0.25 ± 0.075 |
| FITCO® Iso PTFE AWG 5 | 4.70 | 4.62 | 5.03 | 0.51 ± 0.100 | 0.38 ± 0.075 | 0.25 ± 0.075 |
| FITCO® Iso PTFE AWG 6 | 4.20 | 4.11 | 4.52 | 0.51 ± 0.100 | 0.38 ± 0.075 | 0.25 ± 0.075 |
| FITCO® Iso PTFE AWG 7 | 3.80 | 3.66 | 4.01 | 0.51 ± 0.100 | 0.38 ± 0.075 | 0.20 ± 0.050 |
| FITCO® Iso PTFE AWG 8 | 3.40 | 3.28 | 3.58 | 0.51 ± 0.100 | 0.38 ± 0.075 | 0.20 ± 0.050 |
| FITCO® Iso PTFE AWG 9 | 3.00 | 2.89 | 3.15 | 0.51 ± 0.100 | 0.38 ± 0.075 | 0.20 ± 0.050 |
| FITCO® Iso PTFE AWG 10 | 2.70 | 2.59 | 2.84 | 0.40 ± 0.075 | 0.30 ± 0.075 | 0.20 ± 0.050 |
| FITCO® Iso PTFE AWG 11 | 2.40 | 2.31 | 2.57 | 0.40 ± 0.075 | 0.30 ± 0.075 | 0.20 ± 0.050 |
| FITCO® Iso PTFE AWG 12 | 2.20 | 2.06 | 2.31 | 0.40 ± 0.075 | 0.30 ± 0.075 | 0.20 ± 0.050 |
| FITCO® Iso PTFE AWG 13 | 1.90 | 1.83 | 2.08 | 0.40 ± 0.075 | 0.30 ± 0.075 | 0.20 ± 0.050 |
| FITCO® Iso PTFE AWG 14 | 1.70 | 1.63 | 1.88 | 0.40 ± 0.075 | 0.30 ± 0.075 | 0.20 ± 0.050 |
| FITCO® Iso PTFE AWG 15 | 1.50 | 1.45 | 1.7 | 0.40 ± 0.075 | 0.30 ± 0.075 | 0.15 ± 0.050 |
| FITCO® Iso PTFE AWG 16 | 1.40 | 1.29 | 1.55 | 0.40 ± 0.075 | 0.30 ± 0.075 | 0.15 ± 0.050 |
| FITCO® Iso PTFE AWG 17 | 1.20 | 1.14 | 1.37 | 0.40 ± 0.075 | 0.30 ± 0.075 | 0.15 ± 0.050 |
| FITCO® Iso PTFE AWG 18 | 1.10 | 1.01 | 1.24 | 0.40 ± 0.075 | 0.30 ± 0.075 | 0.15 ± 0.050 |
| FITCO® Iso PTFE AWG 19 | 1.00 | 0.91 | 1.12 | 0.40 ± 0.075 | 0.30 ± 0.075 | 0.15 ± 0.050 |
| FITCO® Iso PTFE AWG 20 | 0.90 | 0.81 | 1.02 | 0.40 ± 0.075 | 0.30 ± 0.075 | 0.15 ± 0.050 |
| FITCO® Iso PTFE AWG 22 | 0.70 | 0.64 | 0.81 | 0.30 ± 0.075 | 0.25 ± 0.075 | 0.15 ± 0.050 |
| FITCO® Iso PTFE AWG 23 | 0.65 | 0.58 | 0.76 | 0.30 ± 0.075 | 0.25 ± 0.075 | 0.15 ± 0.050 |
| FITCO® Iso PTFE AWG 24 | 0.60 | 0.51 | 0.69 | 0.30 ± 0.075 | 0.25 ± 0.075 | 0.15 ± 0.050 |
| FITCO® Iso PTFE AWG 26 | 0.50 | 0.41 | 0.56 | 0.23 ± 0.050 | 0.23 ± 0.050 | 0.15 ± 0.050 |
| FITCO® Iso PTFE AWG 28 | 0.40 | 0.33 | 0.48 | 0.23 ± 0.050 | 0.23 ± 0.050 | 0.15 ± 0.050 |
| FITCO® Iso PTFE AWG 30 | 0.30 | 0.25 | 0.38 | 0.23 ± 0.050 | 0.23 ± 0.050 | 0.15 ± 0.050 |

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| Attributes | Testing | Value |
|-------------------------------------|---------------------------------------|-------------------------|
| Mechanical | | |
| Tensile strength +23°C +200°C | ASTM D 1708, D 638 / DIN EN ISO 527-3 | 35MPa 15MPa |
| Elongation at break | ASTM D 1708, D 638 / DIN EN ISO 527-3 | 300% - 470% |
| Hardness (Shore D) | ASTM D 2240 / DIN EN ISO 868 | 56 |
| Flexural modulus at 23°C | ASTM D 790 / DIN EN ISO 527-3 | 600MPa |
| Specific density | ASTM D 792 / DIN EN ISO 12086 | 2.15 – 2.18 |
| Thermal | | |
| Melting point (sintered) | ISO 11357 or ASTM D 3418 | 325°C – 329°C |
| Continuous operating temperature | - | Max. 260°C |
| Electrical | | |
| Volume resistivity | ASTM D 257 / IEC 60093 | > 10 ¹⁸ Ω/cm |
| Dielectric strength | ASTM D 149 / DIN EN ISO 12086 | > 14 kV/mm |
| Chemical | | |
| Water absorption | ASTM D 570 / DIN 53472 | < 0.01 % |
| Flammability | UL 94 | V-0 |
| Chemical resistance | - | Excellent |

Packaging:

On spools.

Special sizes, cut lengths or printed tubing on request.