

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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Description	Inner diameter (mm)	Wall thickness (mm)		
		thick	normal	thin
<b>Standard sizes</b>	Nominal			
FITCO® Iso PTFE -2	2 ± 0.20	1 ± 0.15	0.75 ± 0.12	0.5 ± 0.12
FITCO® Iso PTFE -3	3 ± 0.20	1 ± 0.15	0.75 ± 0.12	0.5 ± 0.12
FITCO® Iso PTFE -3.5	3.5 ± 0.20	1 ± 0.15	0.75 ± 0.12	0.5 ± 0.12
FITCO® Iso PTFE -4	4 ± 0.20	1 ± 0.15	0.75 ± 0.12	0.5 ± 0.12
FITCO® Iso PTFE -4.5	4.5 ± 0.20	1 ± 0.15	0.75 ± 0.12	0.5 ± 0.12
FITCO® Iso PTFE -5	5 ± 0.20	1 ± 0.15	0.75 ± 0.12	0.5 ± 0.12
FITCO® Iso PTFE -5.5	5.5 ± 0.25	1 ± 0.15	0.75 ± 0.12	0.5 ± 0.12
FITCO® Iso PTFE -6	6 ± 0.25	1 ± 0.15	0.75 ± 0.12	0.5 ± 0.12
FITCO® Iso PTFE -6.5	6.5 ± 0.25	1 ± 0.15	0.75 ± 0.12	0.5 ± 0.12
FITCO® Iso PTFE -7	7 ± 0.25	1 ± 0.15	0.75 ± 0.12	0.5 ± 0.12
FITCO® Iso PTFE -7.5	7.5 ± 0.30	1 ± 0.15	0.75 ± 0.12	0.5 ± 0.12
FITCO® Iso PTFE -8	8 ± 0.30	1 ± 0.15	0.75 ± 0.12	0.5 ± 0.12
FITCO® Iso PTFE -8.5	8.5 ± 0.30	1 ± 0.15	0.75 ± 0.12	0.5 ± 0.12
FITCO® Iso PTFE -9	9 ± 0.30	1 ± 0.15	0.75 ± 0.12	0.5 ± 0.12
FITCO® Iso PTFE -9.5	9.5 ± 0.30	1 ± 0.15	0.75 ± 0.12	0.5 ± 0.12
FITCO® Iso PTFE -10	10 ± 0.30	1 ± 0.15	0.75 ± 0.12	0.5 ± 0.12
FITCO® Iso PTFE -11	11 ± 0.35	1.5 ± 0.20	1 ± 0.15	0.75 ± 0.12
FITCO® Iso PTFE -12	12 ± 0.35	1.5 ± 0.20	1 ± 0.15	0.75 ± 0.12
FITCO® Iso PTFE -13	13 ± 0.35	2.00 ± 0.25	1.25 ± 0.20	1 ± 0.15
FITCO® Iso PTFE -14	14 ± 0.35	2.00 ± 0.25	1.5 ± 0.20	1 ± 0.15

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## FITCO® - Iso-PTFE

Attributes	Testing	Value
<b>Mechanical</b>		
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
<b>Thermal</b>		
Melting point (sintered)	ISO 11357 or ASTM D 3418	325°C – 329°C
Continuous operating temperature	-	Max. 260°C
<b>Electrical</b>		
Volume resistivity	ASTM D 257 / IEC 60093	> 10 <sup>18</sup> Ω/cm
Dielectric strength	ASTM D 149 / DIN EN ISO 12086	> 14 kV/mm
<b>Chemical</b>		
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.