

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:	- 270° C to + 260° C
Shrinking temperature:	+ 326° C
Standard color:	transparent, other colors on request

Description	Inner diameter (mm)		Wall thickness (mm), +/-
	min.	max.	
FITCOTUBE® PTFE AWG 0	8.26	8.81	0.51 - 0.10
FITCOTUBE® PTFE AWG 1	7.34	7.90	0.51 - 0.10
FITCOTUBE® PTFE AWG 2	6.55	7.06	0.51 - 0.10
FITCOTUBE® PTFE AWG 3	5.82	6.33	0.51 - 0.10
FITCOTUBE® PTFE AWG 4	5.18	5.69	0.51 - 0.10
FITCOTUBE® PTFE AWG 5	4.62	5.03	0.51 - 0.10
FITCOTUBE® PTFE AWG 6	4.12	4.52	0.51 - 0.10
FITCOTUBE® PTFE AWG 7	3.66	4.01	0.51 - 0.10
FITCOTUBE® PTFE AWG 8	3.28	3.58	0.51 - 0.10
FITCOTUBE® PTFE AWG 9	2.90	3.15	0.51 - 0.10
FITCOTUBE® PTFE AWG 10	2.59	2.85	0.41 - 0.07
FITCOTUBE® PTFE AWG 11	2.31	2.57	0.41 - 0.07
FITCOTUBE® PTFE AWG 12	2.06	2.31	0.41 - 0.07
FITCOTUBE® PTFE AWG 13	1.83	2.08	0.41 - 0.07
FITCOTUBE® PTFE AWG 14	1.63	1.88	0.41 - 0.07
FITCOTUBE® PTFE AWG 15	1.45	1.70	0.41 - 0.07
FITCOTUBE® PTFE AWG 16	1.30	1.55	0.41 - 0.07
FITCOTUBE® PTFE AWG 17	1.14	1.37	0.41 - 0.07
FITCOTUBE® PTFE AWG 18	1.02	1.25	0.41 - 0.07
FITCOTUBE® PTFE AWG 19	0.91	1.11	0.41 - 0.07
FITCOTUBE® PTFE AWG 20	0.81	1.02	0.41 - 0.07
FITCOTUBE® PTFE AWG 21	0.74	0.89	0.31 - 0.07
FITCOTUBE® PTFE AWG 22	0.64	0.81	0.31 - 0.07
FITCOTUBE® PTFE AWG 23	0.58	0.74	0.31 - 0.07
FITCOTUBE® PTFE AWG 24	0.51	0.67	0.31 - 0.07
FITCOTUBE® PTFE AWG 26	0.41	0.56	0.23 - 0.05
FITCOTUBE® PTFE AWG 28	0.33	0.48	0.23 - 0.05
FITCOTUBE® PTFE AWG 30	0.25	0.38	0.23 - 0.05

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Attributes	Testing	Value
Mechanical		
Tensile strength	ASTM D 1708, D 638	24.13 MPa
Elongation at break	ASTM D 1708, D 638	300 %
Hardness (Shore D)	ASTM D 2240	D-60
Compressive strength	ASTM D 695	24.13 MPa
Flexural modulus	ASTM D 790 at 23°C	620.53 MPa
Tensile modulus	ASTM D 638	551.58 MPa
Specific density	ASTM D 792	2.15
Thermal		
Thermal conductivity	C-177	0.245 (W/(m x k))
Melting point	-	327°C
Deformation temperature	ASTM D 648 – 0.46 MPa ASTM D 648 – 1.82 MPa	122 °C 55°C
Continuous operating temperature	-	Max. 260°C
Electrical		
Dielectric constant	ASTM D 150 at 10 ³ Hz ASTM D 150 at 10 ⁶ Hz	2.10 2.10
Dielectric Dissipation Factor	ASTM D 150 at 10 ³ Hz ASTM D 150 at 10 ⁶ Hz	0.0002 0.0002
Volume resistivity	ASTM D 257	> 10 ¹⁸ Ω/cm
Dielectric strength	ASTM D 149	> 14 kV/mm
Chemical		
Oxygen Index	ASTM D 2863	> 95 %
Water absorption	ASTM D 570	< 0.01 %
Weather resistance	-	Excellent
Flammability	UL 94	V-0
Chemical resistance	-	Excellent

Packaging:

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