

# M23053/11 C1

## 1.3:1 SHRINK RATIO, FLUORINATED ETHYLENE PROPYLENE TUBING

### Applications

MIL-DTL-23053/11 C1 is a flame retardant fluorinated ethylene propylene tube. MIL-DTL-23053/11 C1 works well as a protective sleeving and can be used to thoroughly encapsulate parts if required. It has a normal shrink ratio with a heavy wall.

### Features

- ★ In stock for immediate shipments
- ★ Shrink ratio: 1.3:1 shrink ratio in radial direction, ± 15% in the axial direction
- ★ Continuous operating temperature: - 100°C to 200°C
- ★ Highly heat-resistant
- ★ High resistance to chemicals and oils

### Standard

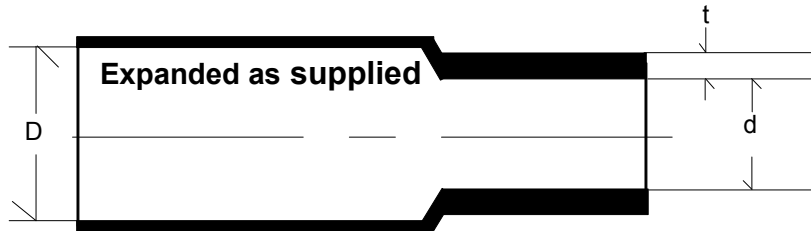
- ★ MIL-DTL-23053/11 Class 1
- ★ RoHS Compliant

### Specification Values

	Property	Test Method	Value
Physical	Specific Gravity	ASTM D792	2.13-2.17
	Elongation	ASTM D638	250-330%
	Tensile Strength	ASTM D638	2800-5000 psi
	Flexural Strength	ASTM D790	No break
	Compressive Strength	ASTM D695	2000 psi
	Flexural Modulus	ASTM D790	78000-92000 psi
	Hardness Durometer	ASTM D636	D-55
	Abrasion Resistance	Taber	14-20 (1000 revs)
Electrical	Dielectric Strength	ASTM D149	500 (125 MIL)
		ASTM D149	≥1400 (10 MIL)
	Volume Resistivity	ASTM D257	>10 <sup>18</sup> Ω - cm
	Surface Resistivity	ASTM D257	>10 <sup>17</sup> Ω - cm
General	Chemical/Solvent Resistance	ASTM D543	No corrosion
	Water Absorption	ASTM D570	<0.01
	Deformation Under Load	ASTM D621	No growth
	Flammability Rating	UL 94	VO

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Fully recovered after heating

**Product Dimensions Minimum Shrink Temperature: 210°C (over 1" Dia: 221°C)**

Size	Expanded		Recovered				23053/11
	Internal Diameter (min.) (D)		Internal Diameter (max.) (d)		Total Wall Thickness (t)		
AWG Size	In.	mm	In.	mm	In.	mm	Class 1
24	.031	.787	.027	.686	.008 ± .002	.203 ± .051	101
22	.036	.914	.032	.813	.008 ± .002	.203 ± .051	102
20	.045	1.14	.039	.991	.008 ± .002	.203 ± .051	103
18	.060	1.52	.049	1.25	.008 ± .002	.203 ± .051	104
16	.075	1.91	.061	1.55	.009 ± .002	.229 ± .051	105
14	.092	2.34	.072	1.83	.009 ± .002	.229 ± .051	106
12	.115	2.92	.089	2.26	.009 ± .002	.229 ± .051	107
10	.141	3.58	.114	2.90	.010 ± .003	.254 ± .076	108
9	.158	4.01	.124	3.15	.010 ± .003	.254 ± .076	109
8	.180	4.57	.143	3.63	.010 ± .003	.254 ± .076	110
7	.197	5.00	.158	4.01	.011 ± .004	.279 ± .102	111
6	.225	5.72	.180	4.57	.011 ± .004	.279 ± .102	112
5	.248	6.30	.198	5.03	.011 ± .004	.279 ± .102	113
4	.290	7.37	.226	5.75	.011 ± .004	.279 ± .102	114
3	.310	7.87	.249	6.32	.011 ± .004	.279 ± .102	115
2	.365	9.27	.280	7.11	.012 ± .004	.305 ± .102	116
1	.400	10.16	.311	7.90	.012 ± .004	.305 ± .102	117
0	.440	11.18	.349	8.86	.012 ± .004	.305 ± .102	118
Fractional Size							
3/8"	.500	12.70	.383	9.73	.015 ± .004	.381 ± .102	119
7/16"	.580	14.73	.448	11.38	.020 ± .004	.508 ± .102	120
1/2"	.666	16.92	.510	12.95	.020 ± .004	.508 ± .102	121
5/8"	.830	21.08	.637	16.18	.025 ± .004	.635 ± .102	122
3/4"	1.000	25.40	.764	19.41	.030 ± .004	.762 ± .102	123
7/8"	1.170	29.72	.891	22.63	.035 ± .004	.889 ± .102	124
1"	1.330	33.72	1.020	25.91	.035 ± .004	.889 ± .102	126
1-1/8"	1.500	38.10	1.145	29.08	.035 ± .004	889 ± .102	-
1-1/4"	1.666	42.32	1.270	32.26	.035 ± .004	889 ± .102	-
1-3/8"	1.833	46.56	1.390	35.31	.035 ± .004	889 ± .102	-
1-1/2"	2.000	50.80	1.520	38.61	.035 ± .004	889 ± .102	-