

## M23053/12 C3

### 2:1 SHRINK RATIO, POLYTETRAFLUOROETHYLENE TUBING THIN WALL

#### Applications

MIL-DTL-23053/12 C3 is a thin wall, flame retardant heat shrinkable polytetrafluoroethylene tube. It is designed for a wide range of applications requiring high heat-resistance.

#### Features

- ★ In stock for immediate shipments
- ★ Shrink ratio: 50% shrink ratio in the radial direction, ± 20% in the axial direction
- ★ Continuous operating temperature: - 75°C to 260°C
- ★ Highly heat-resistance
- ★ High resistance to chemicals and oils

#### Standard

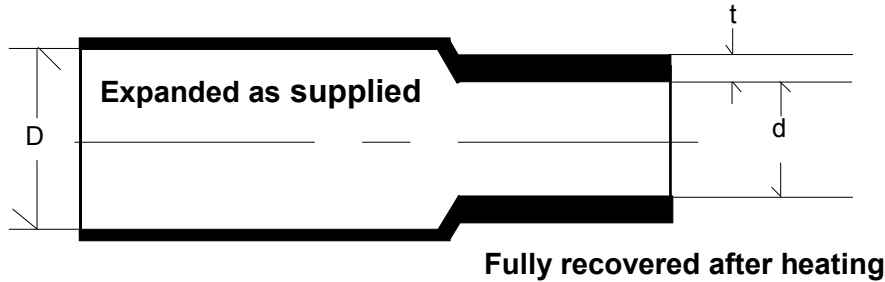
- ★ MIL-DTL-23053/12 Class 3
- ★ RoHS Compliant

#### Specification Values

	Property	Test Method	Value
Physical	Specific Gravity	ASTM D792	2.13-2.0 grams/cm <sup>3</sup>
	Elongation	ASTM D638	200-450%
	Tensile Strength	ASTM D638	2000-4500 psi
	Flexural Strength	ASTM D790	No break
	Compressive Strength	ASTM D695	3500 psi
	Flexural Modulus	ASTM D790	71000-85000 psi
	Hardness Durometer	ASTM D636	D-50-65
	Abrasion Resistance	Taber	12 (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	V -0

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THIN WALL



## Product Dimensions

Minimum Shrink Temperature: 327°C

Size	Expanded		Recovered				23053/12
	Internal Diameter (min.) (D)		Internal Diameter (max.) (d)		Total Wall Thickness (t)		
AWG Size	In.	mm	In.	mm	In.	mm	Class 3
30	.034	.86	.015	.381	.009 ± .002	.229 ± .051	301
28	.038	.97	.018	.457	.009 ± .002	.229 ± .051	302
26	.046	1.17	.022	.559	.010 ± .003	.254 ± .051	303
24	.050	1.27	.027	.686	.010 ± .002	.254 ± .051	304
22	.055	1.40	.032	.813	.012 ± .003	.305/ ± .076	305
20	.060	1.53	.039	.991	.012 ± .003	.305/ ± .076	306
19	.065	1.65	.043	1.09	.012 ± .003	.305/ ± .076	307
18	.076	1.93	.049	1.25	.012 ± .003	.305/ ± .076	308
17	.085	2.16	.054	1.37	.012 ± .003	.305/ ± .076	309
16	.093	2.36	.061	1.55	.012 ± .003	.305/ ± .076	310
15	.110	2.79	.067	1.70	.012 ± .003	.305/ ± .076	311
14	.120	3.05	.072	1.83	.012 ± .003	.305/ ± .076	312
13	.140	3.56	.080	2.03	.012 ± .003	.305/ ± .076	313
12	.150	3.81	.089	2.26	.012 ± .003	.305/ ± .076	314
11	.170	4.32	.101	2.57	.012 ± .003	.305/ ± .076	316
10	.191	4.85	.112	2.85	.012 ± .003	.305/ ± .076	317
9	.205	5.21	.124	3.15	.015 ± .004	.381 ± .102	318
8	.240	6.10	.141	3.58	.015 ± .004	.381 ± .102	320
7	.270	6.86	.158	4.01	.015 ± .004	.381 ± .102	321
6	.302	7.67	.178	4.52	.015 ± .004	.381 ± .102	322
5	.320	8.13	.198	5.03	.015 ± .004	.381 ± .102	323
4	.370	9.40	.224	5.69	.015 ± .004	.381 ± .102	324
3	.390	9.91	.249	6.32	.015 ± .004	.381 ± .102	325
2	.430	10.92	.278	7.06	.015 ± .004	.381 ± .102	327
1	.450	11.43	.311	7.90	.015 ± .004	.381 ± .102	328
0	.470	11.94	.347	8.81	.015 ± .004	.381 ± .102	330
<b>Fractional Size</b>							
1/8"	.215	5.46	.130	3.30	.015 ± .003	.381 ± .076	319
1/4"	.410	10.41	.260	6.60	.015 ± .004	.381 ± .102	326
5/16"	.470	11.94	.329	8.36	.015 ± .004	.381 ± .102	329
3/8"	.560	14.22	.399	10.13	.015 ± .003	.381 ± .076	-
7/16"	.655	16.64	.462	11.73	.018 ± .004	.457 ± .102	-
1/2"	.750	19.05	.524	13.31	.018 ± .004	.457 ± .102	-
5/8"	.930	23.62	.655	16.64	.020 ± .004	.508 ± .102	-
3/4"	1.125	28.58	.786	19.96	.025 ± .005	.635 ± .127	-
7/8"	1.310	33.27	.911	23.14	.030 ± .006	.762 ± .152	-
1"	1.500	38.10	1.036	26.31	.030 ± .006	.762 ± .152	-