



DAFLON Thin Wall Teflon® Tubing

MIL-I-22129 • AMS 3655



Description: Daflon 500 tubing is extruded from Dupont Tetrafluoroethylene resin and is unmatched by any other tubing for use in applications for hi-frequencies and hi-temperatures. Rated for continuous operation of 250°C, it retains its toughness and flexibility throughout. It has high resistance to fatigue and stress, with superior dielectric strength at high frequencies. It will not shrink back during soldering operation. Daflon tubing is flexible and non-flammable, it permits miniaturization of design and compactness and has the lowest coefficient of friction. In addition, it is inert to all fungus growth.

It conforms to MIL-I-22129C Spec. AMS 3654, AMS 3655, ASTM-D-3295.

DAFLEX No.	Size	Nom. I.D.		Wall Thickness		Standard Spool or Coil
		IN.	MM.	IN.	MM.	
DTT500-30	30	0.012	0.30	0.009	0.23	100', 500', 1000'
DTT500-28	28	0.015	0.38	0.009	0.23	100', 500', 1000'
DTT500-26	26	0.018	0.46	0.010	0.25	100', 500', 1000'
DTT500-24	24	0.022	0.56	0.010	0.25	25', 50', 100', 500', 1000'
DTT500-22	22	0.027	0.69	0.010	0.25	25', 50', 100', 500', 1000'
DTT500-20	20	0.034	0.86	0.012	0.30	25', 50', 100', 500', 1000'
DTT500-19	19	0.038	0.96	0.012	0.30	100', 1000'
DTT500-18	18	0.042	1.07	0.012	0.30	25', 50', 100', 500', 1000'
DTT500-17	17	0.047	1.19	0.012	0.30	100', 1000'
DTT500-16	16	0.053	1.35	0.012	0.30	25', 50', 100', 500', 1000'
DTT500-15	15	0.059	1.50	0.012	0.30	100', 1000'
DTT500-14	14	0.066	1.68	0.012	0.30	25', 50', 100', 500'
DTT500-13	13	0.076	1.93	0.012	0.30	100', 500'
DTT500-12	12	0.085	2.16	0.012	0.30	25', 50', 100', 500'
DTT500-11	11	0.095	2.41	0.012	0.30	100', 500'
DTT500-10	10	0.106	2.69	0.012	0.30	25', 50', 100', 500'
DTT500-9	9	0.118	3.00	0.015	0.38	100', 500'
DTT500-8	8	0.133	3.38	0.015	0.38	25', 50', 100', 500', 1000'*
DTT500-7	7	0.148	3.76	0.015	0.38	100, 500, 1000'*
DTT500-6	6	0.166	4.22	0.015	0.38	25', 50', 100', 1000'*
DTT500-5	5	0.186	4.72	0.015	0.38	100', 1000'*
DTT500-4	4	0.208	5.28	0.015	0.38	50', 100', 1000'*
DTT500-3	3	0.234	5.94	0.015	0.38	100', 1000'*
DTT500-2	2	0.263	6.68	0.015	0.38	25', 50', 100', 1000'*
DTT500-1	1	0.294	7.47	0.015	0.38	100', 1000'*
DTT500-0	0	0.330	8.38	0.015	0.38	25', 50', 100', 1000'*
DTT500-1/8	1/8"	0.125	3.18	0.015	0.38	50', 100'
DTT500-1/4	1/4"	0.250	6.35	0.015	0.38	50', 100', 1000'*
DTT500-5/16	5/16"	0.312	7.93	0.015	0.38	50', 100', 1000'*
DTT500-3/8**	3/8"	0.390	9.91	0.015	0.38	50', 100'**
DTT500-7/16**	7/16"	0.453	11.51	0.018	0.46	50', 100'**
DTT500-1/2**	1/2"	0.515	13.08	0.018	0.46	25', 50', 100'**
DTT500-5/8**	5/8"	0.640	16.26	0.020	0.51	25', 50', 100'**
DTT500-3/4**	3/4"	0.765	19.43	0.025	0.64	25, 50, 100'***

* Random lengths in coils. ** Random Straight lengths.

Stock Colors: Natural, Red, Black, Yellow, Blue, Brown, Green, Orange, Gray, Violet, White.
 ** Nos. DTT500-3/8 thru 1" available from stock in Natural.
 Additional colors, sizes made to order.
 If no color is specified, Natural will be supplied.

Table of Properties for Teflon® Tubing		
Test	ASTM Method	Result
Tensile Strength, 73°F	D638-52T	1500-300 Lb/Square Inch
Elongation, 73°F	D638-52T	100-200%
Deformation Under Load-122°F		
1200 Lb/SQ IN., 24hrs	D621-51	4-8%
2000 Lb/SQ IN., 24hrs	D621-51	25%
Hardness Durometer	D676-49T	D50-D65
Heat Distortion Temp, 6 LB/SQ IN.	D648B-45T	250° C
Dielectric Strength .080"	D149-44	400-500 V/Mil
Surface Arc-Resistance	D495-48T	SEC.
Volume Resistivity	D257-52T	10 ¹⁵ Ohms-CM
Surface Resistivity, 100%RH	D257-52T	3.6X10 ⁶ MegOhms
Dielectric Constant, 60 to 10 ⁸ Cyc	D150-54T	2.00
Power Factor, 60 to 10 ⁸ Cycles	D150-54T	0.0003
Specific Gravity	D792-50	2.1-2.2

Teflon light wall tubing (DTT501 series) and standard wall tubing ([DTT550](#) series) are available.

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