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TEL: 973-328-3200 FAX: 973-328-3130

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#DTT500 DAFLON Thin Wall PTFE Tubing, MIL-I-22129, AMS 3655

Description: Daflon 500 tubing is extruded from PTFE 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.

This series is RoHS compliant.

| DAFLON Catalog No. | Size | Nom. I.D. | | Wall Thickness | | Standard Spool or Coil (Note 1) |
|--------------------|-------|-----------|-------|----------------|------|---------------------------------|
| | | 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. Call for Red, Black, Yellow, Blue, Brown, Green, Orange, Gray, Violet, White. If no color is specified, Natural will be supplied.

Nos. DTT500-3/8 thru 1" available from stock in Natural.

Additional colors, sizes made to order.

Note 1: Please call to order quantities less than 100'.

| 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 ⁸ MegOhms |
| Dielectric Constant, 60 to 10⁸Cyc | D150-54T | 2.00 |
| Power Factor, 60 to 10⁸ Cycles | D150-54T | 0.0003 |
| Specific Gravity | D792-50 | 2.1-2.2 |

PTFE light wall tubing (DTT501 series) and standard wall tubing (DTT50 series) are available.

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