



**Alpha Wire Company**

711 Lidgerwood Avenue  
Elizabeth, NJ 07207  
Tel: 908-925-8000  
Fax: 908-925-6923

**Product Specification: TFT-200**

**Date Issued: 11/29/99**

Revised: 12/1/2003

**Product Description:** Non-Shrinkable thin wall PTFE tubing.

**Note:** All dimensions are in inches unless otherwise specified.

**Construction Requirements**

**Physical Properties:**

|                             |                          |
|-----------------------------|--------------------------|
| Operating Temperature Range | -65°C to 260°C           |
| Dimensions                  | Shall Conform To Table 1 |
| Tensile Strength            | 3000 psi                 |
| Elongation                  | 500%                     |
| Specific Gravity            | 2.15                     |

**Chemical Properties:**

|                   |                          |
|-------------------|--------------------------|
| Corrosive Effect  | Non-Corrosive            |
| Flammability      | Self-extinguishing, VW-1 |
| Fungus Resistance | Does not support growth  |
| Water Absorption  | 0%                       |

**Electrical Properties:**

|                     |               |
|---------------------|---------------|
| Dielectric Strength | 800 Volts/mil |
|---------------------|---------------|

**Availability:**

|                  |             |
|------------------|-------------|
| Standard Put-Ups | See Table 2 |
|------------------|-------------|

**Table 1**

| <u>PART<br/>NUMBER</u> | <u>NOMINAL</u> | <u>INSIDE<br/>MINIMUM</u> | <u>DIAMETER<br/>MAXIMUM</u> | <u>NOMINAL</u> | <u>WALL THICKNESS<br/>MINIMUM</u> | <u>MAXIMUM</u> |
|------------------------|----------------|---------------------------|-----------------------------|----------------|-----------------------------------|----------------|
| TFT-200-30             | 0.012          | 0.010                     | 0.015                       | 0.009          | 0.007                             | 0.011          |
| TFT-200-28             | 0.015          | 0.013                     | 0.019                       | 0.009          | 0.007                             | 0.011          |
| TFT-200-26             | 0.018          | 0.016                     | 0.022                       | 0.009          | 0.007                             | 0.011          |
| TFT-200-24             | 0.022          | 0.020                     | 0.027                       | 0.010          | 0.007                             | 0.013          |
| TFT-200-22             | 0.028          | 0.025                     | 0.032                       | 0.010          | 0.007                             | 0.013          |
| TFT-200-20             | 0.034          | 0.032                     | 0.040                       | 0.012          | 0.009                             | 0.015          |
| TFT-200-19             | 0.038          | 0.036                     | 0.044                       | 0.012          | 0.009                             | 0.015          |
| TFT-200-18             | 0.042          | 0.040                     | 0.049                       | 0.012          | 0.009                             | 0.015          |
| TFT-200-17             | 0.047          | 0.045                     | 0.054                       | 0.012          | 0.009                             | 0.015          |
| TFT-200-16             | 0.053          | 0.051                     | 0.061                       | 0.012          | 0.009                             | 0.015          |
| TFT-200-15             | 0.059          | 0.057                     | 0.067                       | 0.012          | 0.009                             | 0.015          |
| TFT-200-14             | 0.066          | 0.064                     | 0.074                       | 0.012          | 0.009                             | 0.015          |
| TFT-200-13             | 0.076          | 0.072                     | 0.082                       | 0.012          | 0.009                             | 0.015          |

TABLE 1 (CON'T)

| <u>PART<br/>NUMBER</u> | <u>INSIDE DIAMETER</u> |                |                | <u>WALL THICKNESS</u> |                |                |
|------------------------|------------------------|----------------|----------------|-----------------------|----------------|----------------|
|                        | <u>NOMINAL</u>         | <u>MINIMUM</u> | <u>MAXIMUM</u> | <u>NOMINAL</u>        | <u>MINIMUM</u> | <u>MAXIMUM</u> |
| TFT-200-12             | 0.085                  | 0.081          | 0.091          | 0.012                 | 0.009          | 0.015          |
| TFT-200-11             | 0.095                  | 0.091          | 0.101          | 0.012                 | 0.009          | 0.015          |
| TFT-200-10             | 0.106                  | 0.102          | 0.112          | 0.012                 | 0.009          | 0.015          |
| TFT-200-9              | 0.118                  | 0.114          | 0.124          | 0.015                 | 0.012          | 0.018          |
| TFT-200-8              | 0.133                  | 0.129          | 0.141          | 0.015                 | 0.012          | 0.018          |
| TFT-200-7              | 0.148                  | 0.144          | 0.158          | 0.015                 | 0.012          | 0.018          |
| TFT-200-6              | 0.166                  | 0.162          | 0.178          | 0.015                 | 0.012          | 0.018          |
| TFT-200-5              | 0.186                  | 0.182          | 0.198          | 0.015                 | 0.012          | 0.018          |
| TFT-200-4              | 0.208                  | 0.204          | 0.224          | 0.015                 | 0.012          | 0.018          |
| TFT-200-3              | 0.234                  | 0.229          | 0.249          | 0.015                 | 0.012          | 0.018          |
| TFT-200-2              | 0.263                  | 0.258          | 0.278          | 0.015                 | 0.012          | 0.018          |
| TFT-200-1              | 0.294                  | 0.289          | 0.311          | 0.015                 | 0.012          | 0.018          |
| TFT-200-0              | 0.330                  | 0.325          | 0.347          | 0.015                 | 0.012          | 0.018          |

**Table 2**

| <b><u>Alpha Part Number</u></b> | <b><u>Standard Put-Ups (Feet)</u></b> |
|---------------------------------|---------------------------------------|
| TFT-200-30                      | 100, 500, 1000                        |
| TFT-200-28                      | 100, 500, 1000                        |
| TFT-200-26                      | 100, 500, 1000                        |
| TFT-200-24                      | 100, 500, 1000                        |
| TFT-200-22                      | 100, 500, 1000                        |
| TFT-200-20                      | 100, 500, 1000                        |
| TFT-200-19                      | 100, 500, 1000                        |
| TFT-200-18                      | 100, 500, 1000                        |
| TFT-200-17                      | 100, 1000                             |
| TFT-200-16                      | 100, 500                              |
| TFT-200-15                      | 100, 500                              |
| TFT-200-14                      | 100, 500                              |
| TFT-200-13                      | 100                                   |
| TFT-200-12                      | 100, 500                              |
| TFT-200-11                      | 100, 500                              |
| TFT-200-10                      | 100, 500                              |
| TFT-200-9                       | 100, 500                              |
| TFT-200-8                       | 100                                   |
| TFT-200-7                       | 100                                   |
| TFT-200-6                       | 100                                   |
| TFT-200-5                       | 100                                   |
| TFT-200-4                       | 100                                   |
| TFT-200-3                       | 100                                   |
| TFT-200-2                       | 100                                   |
| TFT-200-1                       | 100                                   |
| TFT-200-0                       | 100                                   |