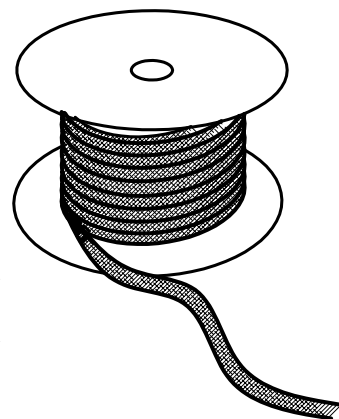


| DCP # | REV | DESCRIPTION       | DRAWN | DATE     | CHECKD | DATE     | APPRVD | DATE     |
|-------|-----|-------------------|-------|----------|--------|----------|--------|----------|
| 673   | C   | Renamed & Redrawn | JWM   | 9/25/01  | JC     | 10/29/01 | JC     | 10/29/01 |
| 1836  | D   | Colors added      | JWM   | 11/17/05 | HO     | 11/17/05 | HO     | 11/17/05 |



| Nominal Size<br><i>(Inch)</i> | SPC Mfg No.    | Color       | Expansion Range |       | Spool Length<br><i>(Feet)</i> |
|-------------------------------|----------------|-------------|-----------------|-------|-------------------------------|
|                               |                |             | Min.            | Max.  |                               |
| 1/8                           | 8465-0228      | Black       | 3/32            | 1/4   | 100                           |
| 1/4                           | 8465-0229-BLK  | Black       | 1/8             | 7/16  |                               |
|                               | 8465-0229-CLR  | Clear       |                 |       |                               |
|                               | 8465-0229-NRED | Neon Red    |                 |       |                               |
|                               | 8465-0229-NYEL | Neon Yellow |                 |       |                               |
|                               | 8465-0229-NGRN | Neon Green  |                 |       |                               |
|                               | 8465-0229-NBLU | Neon Blue   |                 |       |                               |
|                               | 8465-0229-ORG  | Orange      |                 |       |                               |
| 8465-0229-PUR                 | Purple         |             |                 |       |                               |
| 3/8                           | 8465-0230      | Black       | 3/16            | 5/8   | 100                           |
| 1/2                           | 8465-0231-BLK  | Black       | 1/4             | 3/4   | 100                           |
|                               | 8465-0231-CLR  | Clear       |                 |       |                               |
|                               | 8465-0231-NRED | Neon Red    |                 |       |                               |
|                               | 8465-0231-NYEL | Neon Yellow |                 |       |                               |
|                               | 8465-0231-NGRN | Neon Green  |                 |       |                               |
|                               | 8465-0231-NBLU | Neon Blue   |                 |       |                               |
|                               | 8465-0231-ORG  | Orange      |                 |       |                               |
|                               | 8465-0231-PUR  | Purple      |                 |       |                               |
| 3/4                           | 8465-0232-BLK  | Black       | 1/2             | 1-1/4 | 50                            |
|                               | 8465-0232-CLR  | Clear       |                 |       |                               |
|                               | 8465-0232-NRED | Neon Red    |                 |       |                               |
|                               | 8465-0232-NYEL | Neon Yellow |                 |       |                               |
|                               | 8465-0232-NGRN | Neon Green  |                 |       |                               |
|                               | 8465-0232-NBLU | Neon Blue   |                 |       |                               |
|                               | 8465-0232-ORG  | Orange      |                 |       |                               |
|                               | 8465-0232-PUR  | Purple      |                 |       |                               |
| 1-1/4                         | 8465-0233-BLK  | Black       | 3/4             | 1-3/4 | 50                            |
|                               | 8465-0233-CLR  | Clear       |                 |       |                               |
|                               | 8465-0233-NRED | Neon Red    |                 |       |                               |
|                               | 8465-0233-NYEL | Neon Yellow |                 |       |                               |
|                               | 8465-0233-NGRN | Neon Green  |                 |       |                               |
|                               | 8465-0233-NBLU | Neon Blue   |                 |       |                               |
|                               | 8465-0233-ORG  | Orange      |                 |       |                               |
|                               | 8465-0233-PUR  | Purple      |                 |       |                               |
| 1-1/2                         | 8465-0234      | Black       | 1               | 2-1/2 | 50                            |
| 1-3/4                         | 8465-0235      | Black       | 1-1/4           | 2-3/4 | 25                            |
| 2                             | 8465-0236      | Black       | 1-1/2           | 3-1/2 | 25                            |
| 2-1/2                         | 8465-0237      | Black       | 1-3/4           | 4-1/2 | 25                            |



SPC-F004.DWG

|                                                                                            |              |         |                                  |          |                     |               |
|--------------------------------------------------------------------------------------------|--------------|---------|----------------------------------|----------|---------------------|---------------|
| TOLERANCES:<br><br>UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY. | DRAWN BY:    | DATE:   | DRAWING TITLE:                   |          |                     |               |
|                                                                                            | JAP          | 7/16/96 | Polyethylene Expandable Sleeving |          |                     |               |
|                                                                                            | CHECKED BY:  | DATE:   | SIZE                             | DWG. NO. | ELECTRONIC FILE     | REV           |
|                                                                                            | JC           | 8/14/96 | A                                | TA-416   | TA-416.DWG          | D             |
|                                                                                            | APPROVED BY: | DATE:   | SCALE: NTS                       |          | U.O.M.: INCHES [mm] | SHEET: 1 OF 2 |
|                                                                                            | BB           | 8/14/96 |                                  |          |                     |               |

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### **Physical Properties**

- Monofilament Dia.(ASTM D-204): .010
- Flammability Rating: FAR 25, FMVSS 302
- Recommended Cutting: Hot Knife
- Wall Thickness: 025
- Tensile Strength (ASTM D-2556): 85,000 psi
- Abrasion Resistance (ASTM D4157): High
- Tenacity (Gm/Denier) ASTM D-638: 4.5
- Specific Gravity (ASTM D-792): 1.38
- Moisture Absorption (ASTM D-570): .08%
- Smoke D-Max (ASTM E-662): 56
- Toxicity Index (USN 713): 4.2

### **Typical Elongation** (ASTM D-2256-80)

- Break: 15
- 3g/Denier: 5

### **Hard Vacuum Data** (ASTM E-595 at 10-5 torr)

- TML: .51
- CVCM: 0
- WVR: .10

### **Operating Temperatures**

- Minimum Continuous: -75°C [-103°F]
- Maximum Continuous (Mil-I-23053): 125°C [257°F]
- Melt (ASTM D-2117): 230°C [446°F]

### **Chemical Resistance** (1=No Effect, 2=Little Effect, 3=Affected)

- Aromatic Solvents: 2
- Aliphatic Solvents: 1
- Chlorinated Solvents: 3
- Weak Bases: 1
- Salts: 1
- Strong Bases: 2
- Salt Water (O-S-1926): 1
- Hydraulic Fluid (MIL-H-5606): 1
- Lube Oil (MIL-L-7808): 1
- De-Icing Fluid (MIL-A-8243): 1
- Strong Acids: 3
- Strong Oxidants: 2
- Esters/Keytones: 1
- UV Light: 1
- Petroleum: 1
- Fungus (ASTM G-21): 1

Outgassing: Med

Oxygen Index (ASTM D2863): 21

Halogen Free: Yes