

Q2-F



FLEXIBLE, FLAME RETARDANT POLYOLEFIN TUBING
ENVIRONMENT FRIENDLY, HIGHLY FLAME RETARDANT
SHRINK RATIO 2:1

Features/Applications

Provides both commercial and military applications electrical insulation and protects in-line components, disconnect terminals and splices with its high strength and excellent resilience. Bundles wires for very flexible light-duty harnesses. Identifies or color-codes wires, cables, terminals and components.

- Operating temperature: -55°C to +135°C
- Minimum shrink temperature: 70°C
- Full recovery temperature: 100°C
- Approval: File No. E236137, 242540
- 125°C, VW-1, 600V
- Meets: SAE-AMS-DTL-23053/5 Class 1 & 3, Sony-SS-00259
- Material: No PBB's, PBBO's, PBBE's, Free of Cadmium & Lead
- Standard colors: Black, red, blue, yellow, green, white, clear (class 2)
- RoHS Compliant



Technical Data

| Property | Test Method | Typical Data |
|--|----------------------------------|-----------------------|
| Tensile Strength | ASTM D 2671 | 14 MPa |
| Elongation at Break | ASTM D 2671 | 600% |
| Elongation After Aging (175°C, 168 hrs.) | ASTM D 2671 | 350% |
| Flammability | UL 224 VW-1, SAE-AMS-DTL-23053/5 | Pass |
| Heat Shock (250°C, 4 hrs.) | ASTM D 2671 | No cracking |
| Cold Bend (-55°C, 4 hrs.) | ASTM D 2671 | No cracking |
| Dielectric Strength | ASTM D 150 | 20kV/mm |
| Volume Resistance | ASTM D 876 | 10 ¹⁴ Ω.cm |
| Copper Corrosion | UL 224 | Pass |
| Water Absorption | ASTM D 570 | 0.15% |
| Chemical Resistance | SAE-AMS-DTL-23053/5 | Pass |
| Longitudinal Shrinkage | UL 224 | 0 ± 5% |
| Eccentricity | UL 224 | > 30% |

Product Dimensions

| Size (Inch) | As Supplied (mm) | | | After Recovered (mm) | | | Standard Packaging | | |
|-------------|------------------------|------------------------|-----------------------|-------------------------|-----------------------------|-------------------------|--------------------------|-----|--|
| | Inside Diameter (min.) | Inside Diameter (max.) | Wall Thickness (min.) | Mini Spool *(MS) (Feet) | Standard Spool *(SS) (Feet) | Box Length *(QX) (Feet) | Cut to Length Pcs. *(QB) | | |
| | | | | | | | 6" | 48" | |
| 3/64 | 1.2 | 0.6 | 0.40 | 100 | 1000 | 50 | 40 | 25 | |
| 1/16 | 1.6 | 0.8 | 0.40 | 100 | 1000 | 50 | 36 | 25 | |
| 3/32 | 2.4 | 1.2 | 0.48 | 100 | 500 | 50 | 32 | 25 | |
| 1/8 | 3.2 | 1.6 | 0.48 | 100 | 500 | 50 | 28 | 25 | |
| 3/16 | 4.8 | 2.4 | 0.48 | 100 | 500 | 30 | 24 | 25 | |
| 1/4 | 6.4 | 3.2 | 0.56 | 100 | 500 | 30 | 20 | 25 | |
| 5/16 | 8.0 | 4.0 | 0.62 | 100 | 250 | 30 | 18 | 25 | |
| 3/8 | 9.5 | 4.8 | 0.62 | 100 | 250 | 30 | 16 | 25 | |
| 1/2 | 12.7 | 6.4 | 0.62 | 100 | 200 | 15 | 14 | 5 | |
| 5/8 | 15.9 | 8.0 | 0.68 | 50 | 200 | 15 | 14 | 5 | |
| 3/4 | 19.1 | 9.5 | 0.68 | 50 | 200 | 15 | 12 | 5 | |
| 1 | 25.4 | 12.7 | 0.87 | 50 | 200 | 15 | 8 | 5 | |
| 1 1/4 | 31.8 | 15.9 | 1.00 | 50 | 100 | - | 8 | 5 | |
| 1 1/2 | 38.1 | 19.1 | 1.00 | 50 | 100 | - | 5 | 5 | |
| 2 | 50.8 | 25.4 | 1.10 | 50 | 100 | - | 3 | 5 | |
| 3 | 76.2 | 38.1 | 1.20 | -- | 100 | - | 2 | 2 | |
| 4 | 102.0 | 50.8 | 1.35 | -- | 100 | - | 1 | 2 | |
| 5 | 125.0 | 63.5 | 1.40 | -- | 50 | - | 1 | 2 | |
| 6 | 151.0 | 75.0 | 1.40 | -- | 50 | - | 1 | 2 | |

Notes:

1. * See page 8 - Part Number Guide for standard packaging codes.
2. Cross Reference Guide located on page 1.
3. Special sizes, packaging, colors and cut pieces are available upon request.