

# 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 <sup>14</sup> 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.