

# Q5-F3X



**DUAL WALL, ADHESIVE LINED, FLEXIBLE POLYOLEFIN TUBING**  
**SHRINK RATIO 3:1**



**Features/Applications**

Q5-F3X is manufactured by co-extrusion of polyolefin and meltable adhesive. It is designed to provide insulation and create a tight seal for protected articles. Typical applications are environmental sealing of electrical components such as wire splices and harnesses in the automotive and communication industry.

- Operating temperature: -55°C to +125°C
- Minimum shrink temperature: 100°C
- Approval: File No. E236137, 242540, 125°C, VW-1, 600V
- Meets: SAE-AMS-DTL-23053/4, Sony-SS-00259
- Standard color: Black
- RoHS Compliant

Technical Data		
Property	Test Method	Typical Data
Tensile Strength	ASTM D 2671	10.4 MPa (min.)
Tensile Strength After Aging (158°C, 168 hrs.)	ASTM D 2671	Remains 70%
Elongation at Break	ASTM D 2671	300% (min.)
Elongation at Break After Aging (158°C, 168 hrs.)	ASTM D 2671	150% (min.)
Longitudinal Shrinkage	UL 224	0 to -10%
Heat Shock	225°C, 4 hrs.	No cracking, no dropping
Cold Bend (-30°C, 1hr.)	ASTM D 2671	No cracking
Voltage Withstand, (AC 2500V, 60 seconds)	ASTM D 2671	No breakdown
Volume Resistance	ASTM D 876	> 10 <sup>14</sup> Ω.cm (min.)
Flammability	SAE-AMS-DTL-23053/4	Self extinguish in 30 seconds
Copper Corrosion (158°C, 168 hrs.)	UL 224	Pass
Water Absorption	ASTM D 570	< 0.5%
Adhesive to Aluminum	ASTM D 2671	60N/25mm
Fluid Resistance	Tensile Strength: 7MPa (min.), Elongation: 300% (min.)	24hrs. at 23°C in Diesel and Lubricating Oil

Product Dimensions								
Size		As Supplied (mm)	After Recovered (mm)			Standard Packaging		
Inch	mm	Inside Diameter (min.)	Inside Diameter (max.)	Total Wall Thickness (nom.)	Adhesive Thickness (nom.)	Standard Spool *(SS) (Meter)	Cut to Length Pcs. *(QB)	
							6"	48"
1/8	3/1	3.0	1.0	1.00	0.5	200	28	25
3/16	4.8/1.5	4.8	1.5	1.00	0.5	100	24	25
1/4	6/2	6.0	2.0	1.00	0.5	100	20	25
3/8	9/3	9.0	3.0	1.40	0.6	50	16	25
1/2	12/4	12.0	4.0	1.60	0.8	25	14	5
3/4	19/6	19.0	6.0	2.15	0.8	25	12	5
1	24/8	24.0	8.0	2.40	1.0	25	8	5
1 1/2	40/13	40.0	13.0	2.40	1.0	25	5	5

Notes:  
 1. \* See Part Number Guide for standard packaging codes.  
 2. Special sizes, packaging, colors and cut pieces are available upon request.