

## Q5-2X



**DUAL WALL, ADHESIVE LINED, FLEXIBLE POLYOLEFIN TUBING  
SHRINK RATIO 2:1**

### Features/Applications

Heat shrinkable dual wall adhesive lined tubing is manufactured by co-extrusion of polyolefin and hot-melt adhesive. Designed to provide both insulation and sealing for protection against water and moisture of auto wires, shipping cables, metal tubes and bundled wires.

- Operating temperature: -45°C to +125°C
- Minimum shrink temperature: 100°C
- Full recovery temperature: 125°C
- Approvals<sup>4</sup>: File No. E236137, File No. 242540, 125°C, VW-1, 600V
- Meets: Sony-SS-00259, SAE-AMS-DTL-23053/4
- Standard color: Black
- Special colors: Red, blue, white, yellow, clear(non-flame retardant jacket)
- RoHS Compliant



### Technical Data

| Property  | Test Method         | Typical Data                      |
|---|---------------------|-----------------------------------|
| Tensile Strength                                  | ASTM D 2671         | 10.4 MPa (min.)                   |
| Tensile Strength After Aging                      | ASTM D 2671         | 158°C, 168 hrs., remains 70%      |
| Elongation at Break                               | ASTM D 2671         | 200% (min.)                       |
| Elongation at Break After Aging (158°C, 168 hrs.) | ASTM D 2671         | 100% (min.)                       |
| Longitudinal Shrinkage                            | UL 224              | 0 ± 10%                           |
| Heat Shock  | 250°C, 4 hrs.       | No cracking, no dropping          |
| Cold Bend ( -30°C, 1 hr.)                         | ASTM D 2671         | No cracking                       |
| Voltage Withstand (AC 2500V, 60 seconds)          | ASTM D 2671         | No breakdown                      |
| Break Down Voltage                                | ASTM D 2671         | AC 2500V (min.)                   |
| Volume Resistance                                 | ASTM D 876          | Min. 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%                            |

### Product Dimensions

| Size  |           | As Supplied (mm)       | After Recovered (mm)   |                             |                           | Standard Packaging           |                                      |     |
|-------|-----------|------------------------|------------------------|-----------------------------|---------------------------|------------------------------|--------------------------------------|-----|
| Inch  | mm        | Inside Diameter (min.) | Inside Diameter (max.) | Total Wall Thickness (min.) | Adhesive Thickness (nom.) | Standard Spool *(SS) (Meter) | Cut to Length Pcs. *(QB) Qty per bag |     |
|       |           |                        |                        |                             |                           |                              | 6"                                   | 48" |
| 1/8   | 3.2/1.6   | 3.20                   | 1.6                    | 0.70                        | 0.20                      | 200                          | 28                                   | 25  |
| 3/16  | 4.8/2.4   | 4.80                   | 2.4                    | 0.70                        | 0.20                      | 100                          | 24                                   | 25  |
| 1/4   | 6.4/3.2   | 6.40                   | 3.2                    | 0.75                        | 0.20                      | 100                          | 20                                   | 25  |
| 3/8   | 9.5/4.8   | 9.50                   | 4.8                    | 0.75                        | 0.20                      | 50                           | 16                                   | 25  |
| 1/2   | 12.7/6.4  | 12.70                  | 6.4                    | 0.75                        | 0.20                      | 25                           | 14                                   | 5   |
| 3/4   | 19.1/9.6  | 19.10                  | 9.5                    | 0.90                        | 0.20                      | 25                           | 12                                   | 5   |
| 1     | 25.4/12.7 | 25.40                  | 12.7                   | 1.10                        | 0.20                      | 25                           | 8                                    | 5   |
| 1 1/2 | 38.1/19.0 | 38.10                  | 19.0                   | 1.10                        | 0.20                      | 25                           | 5                                    | 5   |

**Notes:**

- \* See Part Number Guide for standard packaging codes..
- Cross Reference Guide available.
- Special sizes, packaging, colors and cut pieces are available upon request.
- Clear and Color tubing other than black are not flame retardant, UL or CSA approved.

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