

**Q5-4X** 

## DUAL WALL, ADHESIVE LINED, FLEXIBLE POLYOLEFIN TUBING SHRINK RATIO 4:1

## 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: -55°C to +125°C • Minimum shrink temperature: 80°C • Full recovery temperature: 110°C

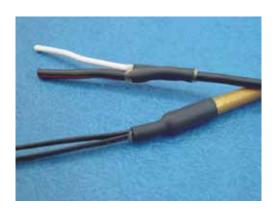
• Approvals<sup>4</sup>: • File No. E236137, File No. 242540, 125°C, VW-1, 600V

Meets: Sony-SS-00259, SAE-AMS-DTL-23053/4

• Standard color: Black

• Special colors: Red, blue, white, yellow, clear

RoHS Compliant



| Technical Data  |                               |                              |  |  |  |  |  |  |
|---|-------------------------------|------------------------------|--|--|--|--|--|--|
| Property  | Test Method                   | Typical Data                 |  |  |  |  |  |  |
| Operating Temperature                                 | IEC 216                       | -55°C to +125°C              |  |  |  |  |  |  |
| Tensile Strength                                      | ASTM D 2671                   | >12 MPa                      |  |  |  |  |  |  |
| Ultimate Elongation                                   | ASTM D 2671                   | > 400%                       |  |  |  |  |  |  |
| Longitudinal Shrinkage                                | UL 224                        | 0 ± 10%                      |  |  |  |  |  |  |
| Eccentricity  | ASTM D 2671                   | < 40%<br>> 11 MPa<br>> 350 % |  |  |  |  |  |  |
| Heat Aging<br>Tensile Strength<br>Ultimate Elongation | 158°C, 168 hrs.               |                              |  |  |  |  |  |  |
| Flammability  | VW-1                          | Pass                         |  |  |  |  |  |  |
| Voltage Withstand                                     | ASTM D 2671 / AC2500V. 1 min. | No Breakdown                 |  |  |  |  |  |  |
| Volume Resistance                                     | ASTM D 2671                   | >10 <sup>14</sup> Ω.cm       |  |  |  |  |  |  |
| Copper Stability                                      | UL 224                        | Pass                         |  |  |  |  |  |  |
| Copper Corrosion                                      | UL 224                        | No Corrosion                 |  |  |  |  |  |  |
| Property of adhesive                                  |                               |                              |  |  |  |  |  |  |
| Ring-Ball Soft Point                                  | ASTM E28                      | 95°C <u>+</u> 5°C            |  |  |  |  |  |  |

| Product Dimensions |                       |                              |                              |                                   |                                 |                                       |   |     |  |  |  |
|--------------------|-----------------------|------------------------------|------------------------------|-----------------------------------|---------------------------------|---------------------------------------|---|-----|--|--|--|
| s                  | Size As Supplied (mm) |                              | After Recovered (mm)         |                                   |                                 | Standard<br>Packaging                 |   |     |  |  |  |
| Inch               | mm                    | Inside<br>Diameter<br>(min.) | Inside<br>Diameter<br>(max.) | Total Wall<br>Thickness<br>(min.) | Adhesive<br>Thickness<br>(nom.) | Standard<br>Spool<br>*(SS)<br>(Meter) | Cut to Length<br>Pcs.<br>*(QB)<br>Qty per bag |     |  |  |  |
|                    |                       |                              |                              |                                   |                                 |                                       | 6"  | 48" |  |  |  |
| 3/16               | 4/1                   | 4.0                          | 1.0                          | 1.00                              | 0.5                             | 100                                   | 24  | 25  |  |  |  |
| 1/4                | 6/1.5                 | 6.0                          | 1.5                          | 1.00                              | 0.5                             | 100                                   | 20  | 25  |  |  |  |
| 5/16               | 8/2                   | 8.0                          | 2.0                          | 1.00                              | 0.5                             | 50                                    | 18  | 25  |  |  |  |
| 1/2                | 12/3                  | 12.0                         | 3.0                          | 1.40                              | 0.6                             | 25                                    | 14  | 5   |  |  |  |
| 5/8                | 16/4                  | 16.0                         | 4.0                          | 1.60                              | 0.8                             | 25                                    | 14  | 5   |  |  |  |
| 1                  | 24/6                  | 24.0                         | 6.0                          | 2.15                              | 0.8                             | 25                                    | 12  | 5   |  |  |  |
| 1 1/4              | 32/8                  | 32.0                         | 8.0                          | 2.40                              | 1.0                             | 25                                    | 8   | 5   |  |  |  |
| 2                  | 52/13                 | 52.0                         | 13.0                         | 2.40                              | 1.0                             | -                                     | 5   | 5   |  |  |  |

Notes:

1. \*See page 13 - Part Number Guide for standard packaging codes.

2. Cross Reference Guide located on page 3.

3. Special sizes, packaging, colors and cut pieces are available upon request.

4. Clear tubing is not flame retardant, UL or CSA approved.