

**Introducing**  
**QSW (Quick Shrink Wrap)**  
**Adhesive-Lined Polyolefin Wraparound**  
**Repair Sleeve**

# QSW (Quick Shrink Wrap) Adhesive-Lined Polyolefin Wraparound Repair Sleeve

## KEY FEATURES

- Combines the ease of installation of self-adhesive tapes with the superior sealing and insulation capabilities of heat-shrinkable tubing
- Wraparound sleeves provide a quick and permanent method for repairing and sealing minor damage to cable insulation without de-pinning a connector
- Useful for organizing and grouping wire bundles and cables
- Adhesive lining provides excellent bonding and sealing to most common insulation materials such as crosslinked polyethylene, polyethylene, ethylene propylene rubber and PVC as well as to metals including copper and steel
- Installs quickly and easily using a small propane torch, high output heat gun or production oven

## DESCRIPTION

Adhesive-lined Polyolefin Wraparound Repair Sleeve

Available in two widths and several lengths to cover a wide range of applications

## APPLICATIONS

Rail and Mass Transit

Automotive and Truck

Industrial Machinery

Commercial and Military Harnesses

## TEMPERATURE RATING

Minimum shrink temperature: 70°C [158°F]

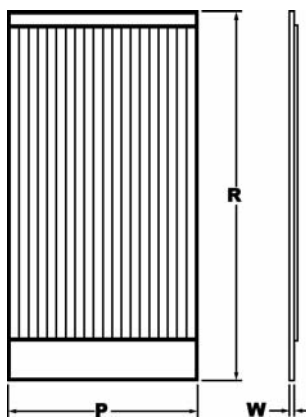
Minimum full recovery temperature: 130°C [266°F]

Continuous operating temperature: -45°C to 110°C [-49°F to 230°F]

## SPECIFICATIONS

QSW Specification Control Drawing

## PRODUCT DIMENSIONS



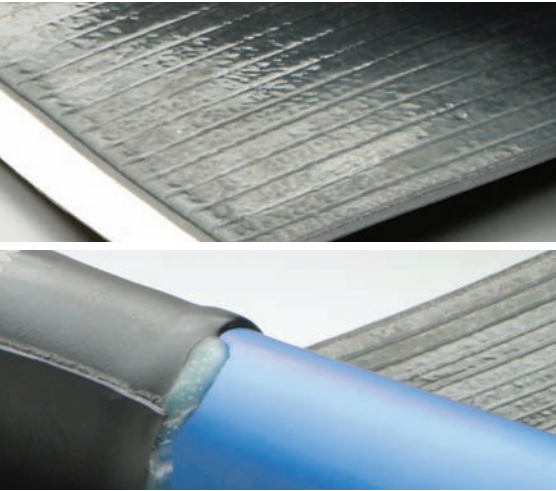
### Notes:

1. Dimensions mm (in.)
2. Dimension **R** = length of sheet (shrinks approximately 10%)
3. Dimension **P** = width of the sheet
4. Dimension **W** = wall thickness .65mm (.025)

| Product Description | Substrate Diameter Range | P +1 (.04) -0 | R ±6 (.24) |
|---------------------|--------------------------|---------------|------------|
| QSW 60-100          | 10 (0.4) – 20 (0.8)      | 60 (2.4)      | 100 (4.0)  |
| QSW-60-200          | 20 (0.8) – 50 (2.0)      | 60 (2.4)      | 200 (7.9)  |
| QSW-60-300          | 40 (1.6) – 75 (3.0)      | 60 (2.4)      | 300 (11.8) |
| QSW-60-400          | 50 (2.0) – 100 (4.0)     | 60 (2.4)      | 400 (15.7) |
| QSW-100-100         | 10 (0.4) – 20 (0.8)      | 100 (4.0)     | 100 (4.0)  |
| QSW-100-200         | 20 (0.8) – 50 (2.0)      | 100 (4.0)     | 200 (7.9)  |
| QSW-100-300         | 40 (1.6) – 75 (3.0)      | 100 (4.0)     | 300 (11.8) |

# QSW (Quick Shrink Wrap) Adhesive-Lined Polyolefin Wraparound Repair Sleeve

## PROPERTIES



| Property  | Unit  | Requirement                  | Test Method               |
|---|---|------------------------------|---------------------------|
| Tensile Strength  | psi (MPa)   | 2466 (17) minimum            | ASTM D412                 |
| Ultimate Elongation   | Percent   | 350 minimum                  | ASTM D412                 |
| Specific Gravity  | —   | 1.05 maximum                 | ASTM D792                 |
| Hardness  | Shore D   | 40-50                        | ASTM D2240                |
| Accelerated Aging, 168 hrs<br>@ 150 ± 2°C (302 ± 4°F)<br>followed by tests for:   |   |                              | ASTM D2671                |
| Tensile Strength  | psi (MPa)   | 1740 (12) minimum            | ASTM D412                 |
| Ultimate Elongation   | Percent   | 200 minimum                  | ASTM D412                 |
| Low Temperature Flexibility<br>4 hrs @ 40 ± 3°C (-40 ± 5°F)   | —   | No cracking                  | ASTM D2671<br>Procedure C |
| Dielectric Strength   | V/mil (kV/cm)   | 500 (200) minimum            | ASTM D2671                |
| Volume Resistivity  | ohm-cm  | 1 x 10 <sup>22</sup> minimum | ASTM D2671                |
| Water Absorption, 168 hrs<br>@ 23 ± 2°C (73 ± 4°F)  | Percent   | 0.2 maximum                  | ASTM D2671                |
| Fluid Resistance<br>24 hrs @ 23 ± 2°C (73 ± 4°F) in:<br>Hydraulic Fluid (MIL-H-5606)<br>JP-8 (MIL-T-5624)<br>Lubricating Oil (MIL-L-7808)<br>Lubricating Oil (MIL-L-23699)<br>5 percent NaCl (A-A-694)<br>Deicing Fluid (MIL-A-8243)<br>Skydrol 500 |   |                              | AMS-DTL-23053/5           |
| Followed by tests for:  |   |                              |                           |
| Tensile Strength  | psi (MPa)   | 1000 (6.9) minimum           | ASTM D2671                |
| Dielectric Strength   | V/mil (kV/mm)   | 400 (15.8) minimum           | ASTM D2671                |
| Weathering  | The material from which QSW is manufactured contains carbon black to protect it from ultraviolet radiation. |                              |                           |

## ORDERING INFORMATION

|                       |  |
|-----------------------|--|
| <b>Color</b>          | Black  |
| <b>Size selection</b> | Order the size that will recover tightly on the substrate diameter and extend beyond each side of the damaged area by at least 1" (25mm) |
| <b>Packaging</b>      | In pieces  |
| <b>Description</b>    | Specify product name, width, and length (for example, QSW-60-100)  |

## FOR MORE INFORMATION

### Technical Support

Internet: [www.tycoelectronics.com](http://www.tycoelectronics.com)  
E-mail: [newproducts@tycoelectronics.com](mailto:newproducts@tycoelectronics.com)  
USA: 1-800-522-6752  
Canada: 1-905-470-4425  
Mexico: 1-800-733-8926  
C. America: 52-55-1106-0803  
South America: 55-11-2103-6000  
Hong Kong: 852-2735-1628  
Japan: 81-44-844-8013  
UK: 44-8706-080208

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