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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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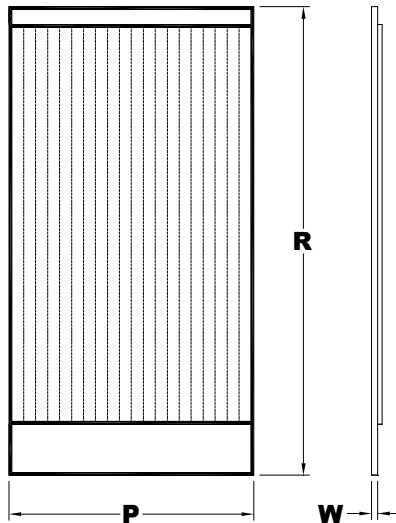
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## QSW (Quick Shrink Wrap) Adhesive-Lined Polyolefin Wraparound Repair Sleeve




**Table 1: Dimensions**

Size	Substrate Diameter Range	Dimension P +1 mm (0.04 in.), - 0	Dimension R ± 6 mm (0.24 in.)
	mm (in.)	mm (in.)	mm (in.)
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)

- Notes:** 1. Dimension **W** (wall thickness): 0.65 mm (0.025 in.) nominal  
2. Dimension **R** (length of sheet) shrinks approximately 10%

**Material:** QSW sleeves shall be fabricated from irradiated modified polyolefin compounded to produce a homogeneous, uniform product whose exterior surface is essentially free from flaws, defects, pinholes, seams, cracks or inclusions, and the color shall be black. The interior shall be coated with a hot melt thermoplastic adhesive.

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		TE Connectivity 305 Constitution Drive Menlo Park, CA 94025 USA		Raychem Tubing		Title: QSW (Quick Shrink Wrap) Adhesive-Lined Polyolefin Wraparound Repair Sleeve	
						Document No : <b>QSW</b>	
TE Connectivity reserves the right to amend this drawing at any time. Users should evaluate the suitability of the product for their application.							
Cage Code: 06090	Scale: None	Size: A	Rev. Date: 15-Apr-11	Rev: B1	Sheet: 1 of 2		

**Table 2: 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 @ 150 ± 2°C (302 ± 4°F) 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 4 hrs @ -40 ± 3°C (-40 ± 5°F)	---	No cracking	ASTM D2671 Procedure C
Dielectric Strength	V/mil (kV/cm)	500 (200) minimum	ASTM D2671
Volume Resistivity	ohm-cm	1 x 10 <sup>12</sup> minimum	ASTM D2671
Water Absorption 168 hrs @ 23 ± 2°C (73 ± 4°F)	percent	0.2 maximum	ASTM D2671
Fluid Resistance 24 hours @ 23 ± 2°C (73 ± 4°F) in: Hydraulic Fluid (MIL-H-5606) JP-8 (MIL-T-5624) Lubricating Oil (MIL-L-7808) Lubricating Oil (MIL-L-23699) 5 percent NaCl (A-A-694) Deicing Fluid (MIL-A-8243) Skydrol 500			AMS-DTL-23053/5
Followed by tests for:			
Tensile Strength	psi (MPa)	1000 (6.9) minimum	ASTM D412
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.		

- Acceptance Tests:**
- Dimensional** (1 piece per lot): Shall meet the specified dimensions.
  - Visual** (20 pieces per lot): Both backing and adhesive surfaces shall be essentially free from flaws, defects, pinholes, seams or cracks, and must have clean cut edges.
  - Application** (1 piece per lot): 15 minutes @ 175 ± 2°C; No slip page, bubbles or flaws.

Customer Drawing

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