# QS1500 Polyolefin, Flexible, Adhesive Lined, Heat - Shrinkable Tubing

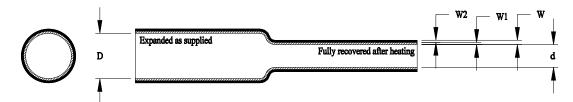


Table 1: Dimensions

	As Supplied		As Recovered							
Size Minimum Expanded I.D. Including Core (D)		Maximum Recovered I.D. Including Core (d)		Minimum Recovered Jacket Wall (W2)		Minimum Recovered Adhesive Wall <u>(</u> W1)		Minimum Recovered Total Wall (W)		
	in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.
No. 1	0.225	5.72	0.050	1.27	0.025	0.64	0.022	0.56	0.047	1.20
No. 2	0.300	7.62	0.065	1.65	0.030	0.76	0.030	0.76	0.060	1.52
No. 3	0.455	11.55	0.095	2.41	0.035	0.89	0.040	1.02	0.075	1.91
No. 4	0.700	17.78	0.175	4.45	0.041	1.04	0.054	1.37	0.095	2.41
No. 5	1.100	27.94	0.300	7.62	0.076	1.93	0.062	1.57	0.138	3.51

<u>Material</u>: Fabricated from flame-retarded crosslinked modified flexible polyolefin, with a thermoplastic adhesive liner.

**Color:** Jacket shall be black. Adhesive liner shall be amber.

## Table 2: Properties:

Property	Unit	Requirement	Test Method
Specific Gravity		1.35 maximum	ASTM D 792 Note 1
Dimensions	Inches	Table 1	ASTM D 2671
Longitudinal Change	Percent	0 to -10	ASTM D 2671
Tensile Strength	PSI	1300 minimum	ASTM D 2671 Speed 2 in./min. Note 2
Ultimate Elongation	Percent	200 minimum	ASTM D 2671 Speed 2 in./min.
Low Temperature Flexibility -40°C		No Cracking	ASTM D 2671
Heat Shock 4 hrs. at 250°C		No Cracking	ASTM D 2671

#### **CUSTOMER DRAWING**

Tyco Electronics		300 Co	ectronics Corporation nstitutional Drive Park, CA 94025 USA	Tubing Polyolefin, Flexib			0 le, Adhesive Lined, inkable Tubing	
Tyco Electronics reserves the right to amend this drawing at any time.				Document No :				
Users should evaluate the suitability of the product for their application				G	S1500			
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#### Properties, continued

Property	Unit	Requirement	Test Method
Heat Aging, 168 hrs at 175°C		No Cracking	Note 3
Dielectric Strength, (jacket only)*	Volts/mil	350 minimum	ASTM D 149
Volume Resistivity	ohm-cm	10 <sup>12</sup> minimum	ASTM D 257
Flammability		Self extinguishing in 1 minute	ASTM D 2671; Procedure B Mandrel size 50% of Expanded I.D.
Water Absorption	Percent	1.0 maximum	ASTM D 570, Procedure A

\* Adhesive liner manually removed prior to testing.

Qualification Sizes:	QS1500-1 qualifies QS1500-1 and QS1500-2
	QS1500-3 qualifies QS1500-3 and QS1500-5

- Note 1:Sample Preparation<br/>Unless otherwise specified, all tests will be performed on tubing specimens which have<br/>been recovered by conditioning for 10 minutes in a 150°C air circulating oven and then<br/>allowed to stabilize at 23±3°C for 3 hours.
- **Note 2:** <u>Tensile Strength</u> Calculate Tensile Strength based on wall thickness of jacket only.
- Note 3: <u>Thermal Aging</u> Three samples shall be conditioned for 168 hours in an air circulating oven at 175±3°C. After conditioning, the specimens shall be cooled to room temperature and bent through 180° over a mandrel selected in accordance to Table 3. Any side cracking caused by flattening of the specimen on the mandrel shall be disregarded.

## Table 3: Mandrel Sizes

Tube Size "I.D.", inches	Mandrel, O.D. inches
.047 ≤ ID ≤ .250	.313
.250 ≤ ID ≤ .500	.375
$.500 \le ID \le 2.0$	.437

Acceptance tests shall consist of:

Dimensions Longitudinal Change

Acceptance tests shall be performed on each lot of tubing or on a skip-lot basis per a statistically justified control plan determined by Tyco Electronics.

#### **CUSTOMER DRAWING**

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 MIL-LT-3/4-6-SP
 MIL-LT-3/8-0-SP
 8159270001
 839602-000
 8423-6
 FP301-116 

 6"-Black
 FP301-1/2-48"-Black
 FP301-12-48"-Black-Hdr
 FP301-1/4-48"-Black
 FP301-1/4-48"-White-Hdr
 FP301-18-48"-Black-Hdr
 FP301 

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