DWFR Highly Flame-Retardant, Dual Wall Polyolefin Heat-Shrinkable Tubing

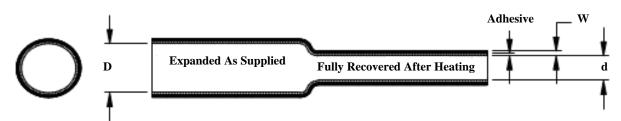


Table 1: <u>Dimensions</u>: mm (in)

Shrink Ratio	Size	Minimum Inside Diameter as supplied (D) mm (<i>in</i>)	Maximum Inside Diameter after recovery (d) mm (<i>in</i>)	Total Wall Thickness after recovery (W) mm (<i>in</i>)	Minimum Inner Meltable Wall Thickness after recovery mm (<i>in</i>)
3:1	3/1	3.0 (0.118)	1.0 (0.039)	$1.12 \pm 0.25 (.044 \pm .010)$	0.25 (0.010)
	6/2	6.0 (0.236)	2.0 (0.079)	$1.14 \pm 0.25 (.045 \pm .010)$	0.25 (0.010)
	9/3	9.0 (0.354)	3.0 (0.118)	$1.40 \pm 0.25 \; (.055 \pm .010)$	0.56 (0.022)
	12/4	12.0 (0.472)	4.0 (0.157)	$1.78 \pm 0.36 \ (.070 \pm .014)$	0.58 (0.023)
	19/6	19.0 (0.748)	6.0 (0.236)	$2.25 \pm 0.50 \; (.088 \pm .020)$	0.58 (0.023)
	24/8	24.0 (0.945)	8.0 (0.315)	$2.54 \pm 0.50 \; (.100 \pm .020)$	0.79 (0.031)
	40/13	40.0 (1.575)	13.0 (0.512)	$2.54 \pm 0.50 \; (.100 \pm .020)$	0.86 (0.034)
4:1	4/1	4.0 (0.157)	1.0 (0.039)	$1.12 \pm 0.25 (.044 \pm .010)$	0.25 (0.010)
	8/2	8.0 (0.315)	2.0 (0.079)	$1.14 \pm 0.25 \; (.045 \pm .010)$	0.25 (0.010)
	12/3	12.0 (0.472)	3.0 (0.118)	$1.40 \pm 0.25 \; (.055 \pm .010)$	0.56 (0.022)
	16/4	16.0 (0.630)	4.0 (0.157)	$1.78 \pm 0.36 \ (.070 \pm .014)$	0.58 (0.023)
	24/6	24.0 (0.945)	6.0 (0.236)	$2.25 \pm 0.50 \; (.088 \pm .020)$	0.58 (0.023)
	32/8	32.0 (1.260)	8.0 (0.315)	$2.54 \pm 0.50 \; (.100 \pm .020)$	0.79 (0.031)
	52/13	52.0 (2.047)	13.0 (0.512)	$2.54 \pm 0.50 \; (.100 \pm .020)$	0.86 (0.034)

Material:

The tubing shall be fabricated from a modified irradiated polyolefin compounded to produce a homogeneous, uniform product whose outside surface is essentially free from flaws, defects, pinholes, seams, cracks, or inclusions. The interior wall is coated with a thermoplastic adhesive. The standard color is black.

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			Tubing TE CONNECTIVITY 300 Constitution Drive Menlo Park, CA 94025 USA	Title: DWFR Highly Flame-Retardant, Dual Wall Polyolefin Heat-Shrinkable Tubing		al Wall Polyolefin
TE Connectivity reserves the right to amend this drawing at any time. Users should evaluate the suitability of the product for their application			Document No : DWFR			
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<u>Properties</u>:

PROPERTY	UNIT	REQUIREMENT	TEST METHOD
PHYSICAL			
*Dimensions	mm (<i>in</i>)	In accordance with Table 1	ASTM D 2671
Longitudinal Change	Percent	0, -15%	ASTM D 2671
*Tensile Strength	psi (MPa)	1500 minimum (10.3)	
			ASTM D 2671
*Ultimate Elongation	Percent	200 minimum	
Secant Modulus (Expanded)	psi (MPa)	2.5 x 10 ⁴ maximum (172)	ASTM D 882, 2% strain
Cold Bend Test		No cracking	UL 224, section 5.9
at $-30 \pm 1.0^{\circ}$ C (-22 $\pm 1.8^{\circ}$ F) for 1			
hour			
*Heat Shock		No dripping, flowing or	UL 224, section 5.8
4 hours at 250.0 \pm 1.0°C (482 \pm		cracking of outer wall	
1.8°F)			
Heat Resistance			UL 224
168 hours at $158.0^{\circ}C \pm 1.0^{\circ}C$ (316.4			
$\pm 1.8^{\circ}F)$			
Followed by test for:			
- Tensile Strength	psi (MPa)	Min. 70% of original	
- Elongation	Percent	100% minimum	
Sealing Efficiency		No openings on reheat	AMS-DTL 23053/4
ELECTRICAL			
Dielectric Strength	Volts/mil	300 minimum (11,811 min)	ASTM D 2671
	(volts/mm)	on dual wall specimen	
Volume Resistivity	ohm-cm	10^{14} minimum on dual wall	ASTM D 2671
		specimen	
CHEMICAL			
Corrosion of the bare copper		No pitting or blackening of	UL 224, section 5.16
168 hours at $158.0^{\circ}C \pm 1.0^{\circ}C$ (316.4		copper	
$\pm 1.8^{\circ}F)$			
Copper stability		Show no sign of degradation	UL 224, section 5.17
168 hours at $158.0^{\circ}C \pm 1.0^{\circ}C$ (316.4			
$\pm 1.8^{\circ}F)$			
Followed by test for:			
- Elongation	Percent	100% minimum	
Flammability		Self-extinguishing within 1	
		minute, 25% maximum flag	UL 224, VW-1
		burn and 0% cotton burn	
Water Absorption	Percent	0.5 maximum	ASTM D 2671
24 hours at 23°C (73°F)			

* Denotes Lot Acceptance Test

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