

DUAL WALL FLEXIBLE POLYOLEFIN WITH THICK WALL ADHESIVE CONTINUOUS LENGTHS ON SPOOLS 3 : 1 Shrink Ratio

MILITARY SPECIFICATION



RoHS Compliant

TYPICAL FEATURES

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| <p>1) SUMITUBE W3B2S is a flexible, flame-retarded heat-shrinkable polyolefin tubing, with a thick wall modified polyamide adhesive which melts and flows, encapsulating and sealing components contained within.</p> <p>2) SUMITUBE W3B2S complies with the requirements of AMS-DTL-23053/4, Class 3, in the sizes marked below.</p> <p>3) SUMITUBE W3B2S is packaged in continuous lengths on spools making it ideally suited for applications requiring cut pieces with minimal waste.</p> | <p>4) Shrink temperature is 110° C.</p> <p>5) Operating temperature range is -55° C to +125° C.</p> <p>6) SUMITUBE W3B2S is recommended for applications requiring water-proofing for light cable and wire harnesses and protection of connector components.</p> |
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STANDARD SIZES

SIZE	INSIDE DIAMETER AS SUPPLIED (MIN)		INSIDE DIAMETER AFTER RECOVERY (MAX)		WALL THICKNESS AFTER RECOVERY (NOM)	
	INCH	(MM)	INCH	(MM)	INCH	(MM)
1/8	.125	3.2	.024	0.6	.037	0.95
* 3/16	.189	4.8	.059	1.5	.043	1.1
1/4	.252	6.4	.079	2.0	.047	1.2
* 3/8	.374	9.5	.118	3.0	.051	1.3
1/2	.500	12.7	.157	4.0	.055	1.4
* 3/4	.748	19.0	.236	6.0	.071	1.8
1	.945	24.0	.315	8.0	.098	2.5
1 1/2	1.575	40.0	.512	13.0	.098	2.5
Standard Colors: Black						
Standard Package: Spooled						
How to Order: (Type of material) (Size) (Color) (Packaging)						
Example: W3B2S 1/2 Black Spooled						

* non SAE-Spec sizes

W3B2S SPECIFICATION VALUES

PROPERTY (UNITS)	TEST METHOD	REQUIREMENTS
Physical: Tensile strength (psi) Elongation (%) Cold impact (-55° C) Heat shock (250° C, 4 hrs.) Secant modulus (psi) Longitudinal change (%)	ASTM D638 ASTM D638 ASTM D746 AMS-DTL-23053 ASTM D882 AMS-DTL-23053	1500 min. 250 min. no cracking no cracking 2.5 X 10 ⁴ max. +1, -15
Electrical: Dielectric strength (volts/mil) Volume resistivity (ohm-cm)	ASTM D876 ASTM D876	500 min. 1 X 10 ¹² min.
Chemical: Corrosion Water absorption (%) Fluid resistance (23°C, 24 hrs.) Tensile strength (psi) Flammability Shrink temperature, nominal	UL 224 ASTM D570 AMS-DTL-23053 UL 224	no corrosion 1.0 max. 900 min. Pass 110°C

Specification reference: UL 224, 125° C, 600V
 File E75077 YDTU2, Cat. No. SUMITUBE W3B2S
 CSA LR33298
 AMS-DTL-23053/4D, Class 3


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