

DUAL WALL FLEXIBLE POLYOLEFIN WITH THICK WALL ADHESIVE 3 : 1 Shrink Ratio

MILITARY SPECIFICATION & UL / CSA



RoHS Compliant



Lead-Free

TYPICAL FEATURES	
<p>1) SUMITUBE W3B2 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 W3B2 complies with the requirements of AMS-DTL-23053/4, Class 3, in the sizes marked below.</p>	<p>3) Shrink temperature is 110° C.</p> <p>4) Operating temperature range is -55° C to + 125° C.</p> <p>5) SUMITUBE W3B2 is recommended for applications requiring water-proofing for light cable and wire harnesses and protection of connector components.</p> <p>6) For similar tubing with UL / CSA surface printing, please see Sumitube® W3F2.</p>

STANDARD SIZES						
SIZE	INSIDE DIAMETER AS SUPPLIED (MIN)		INSIDE DIAMETER AFTER RECOVERY (MAX)		WALL THICKNESS AFTER RECOVERY (NOM)	
	INCH	(MM)	INCH	(MM)	INCH	(MM)
3/1	.125	3.2	.024	0.6	.037	0.95
*4.5/1.5	.189	4.8	.059	1.5	.043	1.1
6/2	.252	6.4	.079	2.0	.047	1.2
*9/3	.374	9.5	.118	3.0	.051	1.3
12/4	.500	12.7	.157	4.0	.071	1.8
*19/6	.748	19.0	.236	6.0	.071	1.8
24/8	.945	24.0	.315	8.0	.098	2.5
40/13	1.575	40.0	.512	13.0	.098	2.5
Standard Colors: Black, White						
Standard Package: 4 feet (4')						
How to Order: (Type of material) (Size) (Color) (Packaging)						
Example: W3B2 12/4 Black 4'						

* non SAE-Spec sizes

W3B2 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	300 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 W3B2 or 843
 CSA LR33298
 AMS-DTL-23053/4D, Class 3


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