

**DUAL WALL FLEXIBLE POLYOLEFIN WITH  
THICK WALL ADHESIVE, SPOOLED  
SUNLIGHT RESISTANT  
3 : 1 Shrink Ratio**

**MILITARY SPECIFICATION**



RoHS/RoHS2 Compliant

**TYPICAL FEATURES**

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| <p>1) SUMITUBE W3B2S is a sunlight resistant flexible, flame-retarded heat-shrinkable polyolefin tubing, with a thick inner wall modified polyamide adhesive that melts and flows, encapsulating and sealing components contained within.</p> <p>2) SUMITUBE W3B2S meets or exceeds the requirements of SAE-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 +110° C.</p> <p>6) Sumitube W3B2S has Underwriters Laboratories (UL) "SUN-RES" recognition. It is recommended for applications requiring water-proofing for cable and wire harnesses and protection of connector components. It is suitable for outdoor uses where product is required to withstand prolonged exposure to sunlight, such as solar panel wiring and related applications.</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	.040	1.0	.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
24/8	.940	23.9	.320	8.1	.100	2.5
40/13	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

\*\*may contain up to 2 splices per spool, depending on size

# W3B2S SPECIFICATION VALUES

PROPERTY (UNITS)	TEST METHOD	REQUIREMENTS
<b>Physical:</b> 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	1300 min. 250 min. no cracking no cracking 2.5 X 10 <sup>4</sup> max. +1, -15
<b>Electrical:</b> Dielectric strength (volts/mil) Volume resistivity (ohm-cm)	ASTM D876 ASTM D876	500 min. 1 X 10 <sup>12</sup> min.
<b>Chemical:</b> 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, "SUN-RES"  
 File E75077 YDTU2, Cat. No. SUMITUBE W3B2S  
 CSA LR33298  
 AMS-DTL-23053/4, Class 3



915 Armorlite Drive  
 San Marcos, CA 92069

Telephone: (800) 758-3515  
 FAX: (800) 758-3517

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