

## DUAL WALL FLEXIBLE POLYOLEFIN WITH THICK WALL ADHESIVE, HIGHLY OVEREXPANDED 4 : 1 Shrink Ratio



RoHS/RoHS2 Compliant

### TYPICAL FEATURES

- |  |  |
|--|--|
| <p>1) SUMITUBE W3B2 (4X) 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. It meets the material requirements of AMS-DTL-23053 with the exception of dimensions and longitudinal change.</p> <p>2) SUMITUBE W3B2 (4X) has a shrink ratio of 4 to 1.</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 (4X) is recommended for cable repair and applications requiring waterproofing light cables and wire harnesses. It also provides strain relief at cable to connector points, often without having to depin the connector.</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)
4/1	.157	4.0	.039	1.0	.040	1.00
8/2	.315	8.0	.079	2.0	.048	1.20
12/3	.472	12.0	.118	3.0	.055	1.40
16/4	.630	16.0	.157	4.0	.071	1.80
24/6	.945	24.0	.236	6.0	.089	2.25
32/8	1.260	32.0	.315	8.0	.100	2.54
52/13	2.047	52.0	.510	13.0	.100	2.54

**Standard Colors:** Black, White

**Standard Package:** 4 feet (4')

**How to Order:** (Type of material) (Size) (Color) (Packaging)

**Example:** W3B2 (4X) 8/2 Black 4'

# W3B2 (4X) SPECIFICATION VALUES

PROPERTY (UNITS)	TEST METHOD	REQUIREMENT
<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	1,500 min. 250 min. no cracking no cracking 2.5 X 10 <sup>4</sup> MAX. +5, -15
<b>Electrical:</b> Dielectric strength (volts/mil) Volume resistivity (ohm-cm)	ASTM D876 ASTM D876	300 min. 1 X 10 <sup>10</sup>
<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  
 File E75077, YDTU2, Cat. No. SUMITUBE W3B2 (4X) or 841



155C-1 Moffett Park Drive  
 Sunnyvale, CA 94089  
 Telephone (408) 734-8880

Facsimile: (408) 734-8881  
 Toll Free: (800) 328-7347

Rev. 6/20/12