

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

MILITARY SPECIFICATION & UL / CSA



RoHS/RoHS2 Compliant



Lead-Free

TYPICAL FEATURES

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| <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 + 110° 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> |
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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) |
| 3/1 | .125 | 3.2 | .040 | 1.0 | .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 | 1300 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-23053/4, Class 3


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