

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



RoHS Compliant

TYPICAL FEATURES

- 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.
- 2) SUMITUBE W3B2 (4X) has a shrink ratio of 4 to 1.
- 3) Shrink temperature is 110° C.
- 4) Operating temperature range is -55° C to +125° C.
- 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.

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 |
|--|--|---|
| 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 | 1,500 min. 250 min. no cracking no cracking 2.5 X 10 ⁴ MAX. +5, -15 |
| Electrical: Dielectric strength (volts/mil) Volume resistivity (ohm-cm) | ASTM D876 ASTM D876 | 300 min. 1 X 10 ¹⁰ |
| 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 (4X) or 841



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