

# SUMITUBE® B2 (4XC) AMS-DTL-23053/5, Cl. 1 Overexpanded UL224

## OVEREXPANDED FLEXIBLE POLYOLEFIN TUBING, SPOOLED 4 : 1 Shrink Ratio

MILITARY SPECIFICATION and UL



RoHS Compliant

### TYPICAL FEATURES

- 1) SUMITUBE® B2(4XC) is a flexible, flame-retarded heat-shrinkable polyolefin tubing, which is specially overexpanded (4:1 expansion ratio). It meets the material and functional requirements of AMS-DTL-23053/5, Class 1 Overexpanded
- 2) Shrink temperature is 90°C.
- 3) Operating temperature range is -55°C to +135°C and up to 200°C for short time durations.
- 4) Recommended for special purpose applications such as cable jacket retrofit or repair and electrical insulation of wire assemblies that have over sized components and connectors.

### STANDARD SIZES

SIZE	INSIDE DIAMETER AS SUPPLIED (MIN)		INSIDE DIAMETER AFTER RECOVERY (MAX)		WALL THICKNESS AFTER RECOVERY (NOM)	
	INCH	(MM)	INCH	(MM)	INCH	(MM)
**3/4	0.750	19.1	.180	4.6	.045	1.14
1	1.000	25.4	.260	6.6	.045	1.14
**1 1/2	1.500	38.1	.375	9.5	.045	1.14
2	2.000	50.4	.550	14.0	.045	1.14

\*\* = non-MIL spec size

**Standard Colors:** Black only

**Standard Package:** Spooled

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

**Example:** B2 (4XC) 1 Black S

## B2 (4XC) SPECIFICATION VALUES

PROPERTY (UNITS)	TEST METHOD	REQUIREMENT
<b>Physical:</b> Tensile strength (psi) Elongation (%) Specific gravity Low temperature flex. (-55°C) Heat shock (250°C 4 hrs.) Heat resistance (175°C 168 hrs.) Elongation (%) Secant modulus (psi) Longitudinal change (%)	ASTM D638 ASTM D638 ASTM D792 AMS-DTL-23053 AMS-DTL-23053  ASTM D638 ASTM D882 AMS-DTL-23053	1500 min. 200 min. 1.35 max. no cracking no cracking  100 min. 2.5 X 10 <sup>4</sup> max. +5 to -15
<b>Electrical:</b> Dielectric strength (volts/mil) Volume resistivity (ohm-cm)	ASTM D876 ASTM D876	500 min. 1.0 X 10 <sup>14</sup> min.
<b>Chemical:</b> Corrosion (175°C 16 hrs.) Water absorption (%) Fluid resistance (23°C, 24 hrs.) Tensile strength (psi) Flammability Shrink temperature, nominal	AMS-DTL-23053 ASTM D570  AMS-DTL-23053 UL 224 VW-1	no corrosion 0.5 max.  1000 min. Pass 90°C

**Specification references:** AMS-DTL-23053/5, Class 1, Overexpanded  
 UL 224 File E70631 YDQS2.



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