

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

OVEREXPANDED FLEXIBLE POLYOLEFIN TUBING, SPOOLED 4 : 1 Shrink Ratio

MILITARY SPECIFICATION and UL



RoHS/ RoHS2 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	.275	7.0	.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
3	3.000	76.2	.810	20.6	.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
Physical: 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 ⁴ max. +5 to -50
Electrical: Dielectric strength (volts/mil) Volume resistivity (ohm-cm)	ASTM D876 ASTM D876	500 min. 1.0 X 10 ¹⁴ min.
Chemical: 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



915 Armorlite Drive
 San Marcos, CA 92069

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

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