

SUMITUBE[®] B2 (3X)

UL/CSA

FLEXIBLE POLYOLEFIN THIN WALL

3 : 1 Shrink Ratio

UL/ CSA RECOGNIZED 125°C 600V (VW-1)



RoHS/ RoHS2 Compliant

TYPICAL FEATURES

- 1) SUMITUBE[®] B2(3X) is a very flexible, flame-retarded, heat-shrinkable polyolefin tubing. B2(3X) is overexpanded to have a recovery ratio of 3 to 1, as opposed to the normal 2 to 1 recovery. B2(3X) is recognized by UL under Subject 224 as 125 C 600V with a VW-1 rating.
- 2) SUMITUBE[®] B2(3X) meets the material and functional properties of AMS-DTL-23053/5, Classes 1 & 3, with exception to dimensions and longitudinal change.
- 3) B2(3X) has a low recovery temperature of 90°C.
- 4) B2(3X) has an operating temperature range of -55°C to +135°C with up to 200°C for short duration.
- 5) B2(3X) is recommended for use in general purpose applications for protection of components in light wire harness assemblies. It can be used where oversized sub-components prevent the use of a standard heat shrinkable tubing. It can also provide the user with better economies, as one size tubing can often replace 2 standard 2:1 expanded tubing sizes, thereby reducing inventories.

STANDARD SIZES

NOMINAL SIZE (MM)	INSIDE DIAMETER AS SUPPLIED (MIN)		INSIDE DIAMETER AFTER RECOVERY (MAX)		WALL THICKNESS AFTER RECOVERY (NOM)	
	INCH	(MM)	INCH	(MM)	INCH	(MM)
	1.5/0.5	.060	1.5	.020	0.5	.020
3/1	.120	3.0	.040	1.0	.024	.60
6/2	.240	6.0	.080	2.0	.028	.70
9/3	.360	9.0	.120	3.0	.031	.80
12/4	.472	12.0	.160	4.0	.033	.85
18/6	.709	18.0	.240	6.0	.039	1.0
24/8	.945	24.0	.315	8.0	.048	1.2
40/13	1.575	40.0	.515	13.0	.050	1.25
50/17	2.000	50.0	.670	17.0	.059	1.50
75/25	3.000	75.0	1.000	25.0	.065	1.65
102/34	4.000	102.0	1.330	34.0	.071	1.80

Standard Colors: Black, White, Red, Yellow, Blue

Standard Package: 4 feet (4') or Spooled (S) (continuous lengths)

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

Example: B2(3X) 6/2 Black S

B2 (3X) SPECIFICATION VALUES

PROPERTY (UNITS)	TEST METHOD	REQUIREMENT
Physical: Tensile strength (psi) Elongation (%) Specific gravity Low temperature flex (-55 ⁰ C) Heat shock Heat resistance (175 ⁰ 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, -15
Electrical: Dielectric strength (volts/mil) Volume resistivity (ohm-cm)	ASTM D876 ASTM D876	500 min. 1.0 X 10 ¹⁴ min.
Chemical: Corrosion Water absorption (%) Fluid resistance (23 ⁰ C, 24 hrs.) Tensile strength (psi) Flammability Shrink temperature, nominal	AMS-DTL-23053 ASTM D 570 AMS-DTL-23053 UL 224 VW-1	no corrosion 0.5 max. 1000 min. pass 90 ⁰ C

Specification reference: UL 224 125⁰C, 600V, VW-1
 File E48762 YDPU2, Cat. No. B2(3X) or 826 suffix (3X)
 CSA C22.2 No. 198.1-98



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