



TECHNICAL DATA SHEET

SUMITUBE® B2(3X)

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General Characteristics	Very flexible, high temperature rated, highly flame retardant UL and CSA recognised heat shrinkable tubing
Material	Polyolefin
Surface	Matt
Marking	None
Colours and Dimensions	See Dimension Table

Properties	Test Method	Standard Requirements	Typical Value
Referring Size 3/1 Shrink Ratio 3:1			
Thermal Properties			
Continuous Operating Temperature		-55°C to +135°C	
Min. Shrink Temperature for Full Recovery		+90°C	
Shrinking starts at		+60°C	
Heat Shock (250°C x 4h)	SAE-AMS-DTL-23053	no crack, flowing or dripping	pass
Elongation After Heat Ageing (158°C x 168h)	SFP-Std.	100% min.	400%
Low Temperature Flexibility (-55°C x 4h)	SAE-AMS-DTL-23053	no cracking	pass
Copper Corrosion (175°C x 16h)	SAE-AMS-DTL-23053	no corrosion	pass
Colour Stability (158°C x 24h)	SFP-Std.	no change	pass
Physical Properties			
Longitudinal Change	SFP-Std.	-15% Min.	-10% +/-3%
Specific Gravity	ASTM D 792	n.a.	1.34
Tensile Strength	ASTM D 638	10.3MPa Min.	14MPa
Elongation at Break	ASTM D 638	200% Min.	410%
Secant Modulus	ASTM D 882	173MPa Max.	65MPa
Chemical Properties			
Flammability	UL 224, VW-1	60sec. Max.	pass
Water Absorption	ASTM D 570	0.5% max.	0.25%
Fluid Resistance (after immersion 23°C x 24h)	SAE-AMS-DTL-23053	6.9MPa Min. tensile strength	pass (7.25 - 14MPa)
Fungus Resistance	ASTM G 21	no growth	pass
Electrical Properties			
Voltage Rating	UL 224	600V	
Dielectric Voltage Withstand (2.5kV x 60sec.)	UL 224	no breakdown	pass
Volume Resistivity	ASTM D 876	10 ¹⁴ Ohm-cm Min.	3.1x10 ¹⁴ Ohm-cm
Dielectric Strength	ASTM D 876	19.7KV/mm Min.	37KV/mm

Applicable Specifications CSA C 22.2 No. 198.1: 125°C 600V VW-1 (File No.: 033298-0-000)
SAE-AMS-DTL-23053/5 class 1&3
UL224 125°C 600V VW-1 (File No. E48762)

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DIMENSION TABLE

SUMITUBE® B2(3X)

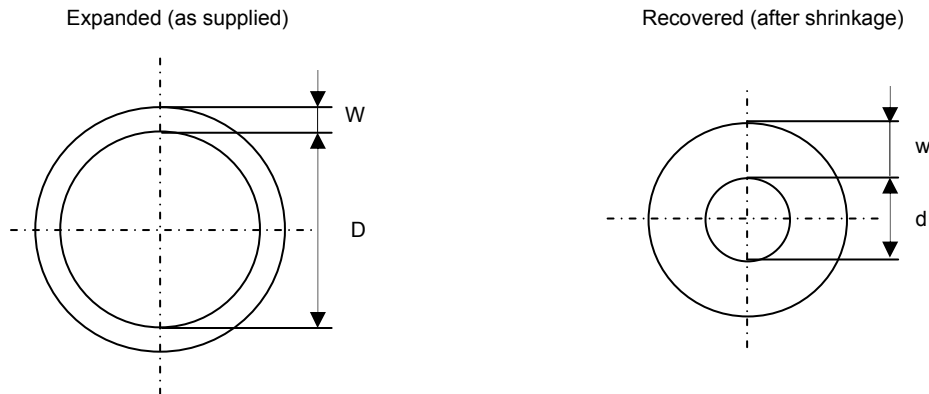
Standard Colours: Black, White, Red, Yellow, Blue
 Standard Packaging: Spools in boxes
 Standard Sizes and Quantities:

Type/Size (mm)	Inside Diameter (mm)		Wall Thickness Recovered (nom.)	Quantity per Spool* (m)
	Expanded (min.)	Recovered (max.)		
1.5/0.5	1.50	0.50	0.50	55.0
3/1	3.00	1.00	0.60	55.0
4.8/1.6	4.80	1.60	0.65	55.0
6/2	6.00	2.00	0.70	55.0
9/3	9.00	3.00	0.80	55.0
12/4	12.0	4.00	0.85	55.0
18/6	18.0	6.0	1.00	55.0
24/8	24.0	8.0	1.20	55.0
40/13	40.0	13.0	1.25	55.0

Non standard colours available upon request

Drawing

Tube Front



D= Inside diameter expanded
 d= Inside diameter recovered
 W= Wall thickness expanded
 w= Wall thickness recovered

* Please note: Tubing is flattened for printing and presented in 55 metre lengths on cardboard spools. Non flattened tubing is available to order.

Sumitube distributed by:

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