



TECHNICAL DATA SHEET

SUMITUBE[®] B11

General Characteristics Flexible, flame retardant heatshrinkable tubing

Material Polyolefin
 Surface Matt
 Marking None
 Colours and Dimensions See Dimension Table

Properties	Test Method	Standard Requirements	Typical Value
Referring Size 1/8" Shrink Ratio 2:1			
Thermal Properties			
Continuous Operating Temperature		-55°C to +125°C	
Min. Shrink Temperature for Full Recovery		+90°C	
Shrinking starts at		+60°C	
Heat Shock (225°C x 4h)	SAE-AMS-DTL-23053	no crack, flowing or dripping	pass
Elongation After Heat Ageing (150°C x 168h)	SAE-AMS-DTL-23053	100% min. elongation	210%
Low Temperature Flexibility (-55°C x 4h)	SAE-AMS-DTL-23053	no cracking	pass
Copper Corrosion (175°C x 16h)	UL 224	no corrosion	pass
Physical Properties			
Longitudinal Change	SFP-Std.	-15% min.	-5%
Specific Gravity	ASTM D 792	1.35 max.	1.33
Tensile Strength	ASTM D 638	10.3MPa min.	17.5MPa
Elongation at Break	ASTM D 638	200% min.	400%
Secant Modulus	ASTM D 882	173MPa max.	110MPa
Chemical Properties			
Flammability	ASTM D 2671 Procdure B	60sec. max.	pass
Water Absorption	ASTM D 570	0.5% max.	0.35%
Fluid Resistance (after immersion 23°C x 24h)	SAE-AMS-DTL-23053	6.9MPa min. tensile strength	pass
Electrical Properties			
Voltage Rating		n.a.	600V
Dielectric Voltage Withstand (2.5kV x 60sec.)	UL 224	no breakdown	pass
Volume Resistivity	ASTM D 876	10 ¹⁴ Ohm-cm min.	4.7x10 ¹⁴ Ohm-cm
Dielectric Strength	ASTM D 876	19.7KV/mm min.	28KV/mm

Applicable Specifications SFP-Standard





DIMENSION TABLE

SUMITUBE® B11

Standard Colours: Black, White, Red, Green, Yellow, Blue

Standard Packaging: Spools in boxes

Standard Sizes and Quantities:

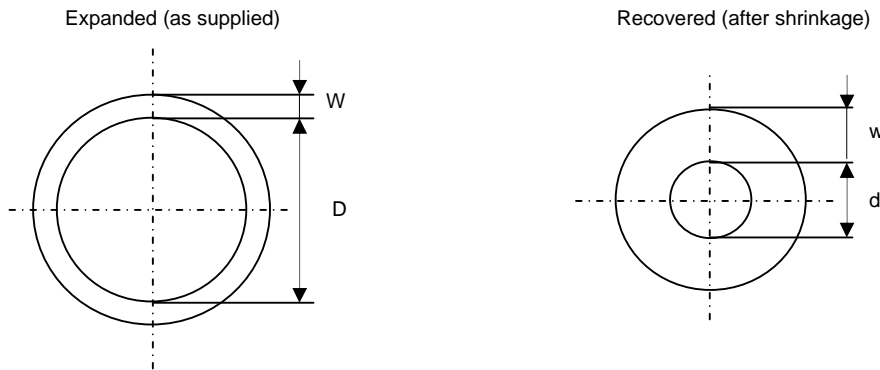
Type/Size (Inch)	Inside Diameter (mm)		Wall Thickness Recovered (nom.)	Quantity per Spool / Box (m)
	Expanded (min.)	Recovered (max.)		
3/64	1.20	0.60	0.41	300/900
1/16	1.60	0.80	0.43	300/900
3/32	2.40	1.20	0.51	150/900
1/8	3.20	1.60	0.51	150/900 ¹
3/16	4.80	2.40	0.51	60/600 ²
1/4	6.4	3.20	0.64	60/300 ³
3/8	9.5	4.80	0.64	60/300
1/2	12.7	6.4	0.64	60/300
3/4	19.1	9.5	0.76	60/180
1	25.4	12.7	0.89	60/180
1-1/4	31.8	15.9	1.02	60/180
1-1/2	38.1	19.1	1.02	60/180
2	50.8	25.4	1.14	60/120
3	76.2	38.1	1.27	60/60
4	101.6	50.8	1.40	30/30

Packaging of black colour: ¹ = 300/900
² = 150/600
³ = 100/300

Non standard colours and cut length of 1.2m are available upon request

Drawing

Tube Front



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

