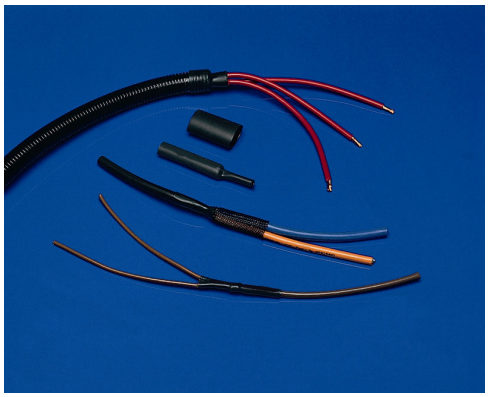
Sumitube™ W3B2

Dual Wall Polyolefin, 3:1
Operating temperature: -55 up to 125°C



Surface: Matt
Marking: None

- CSA C 22.2 No. 198.1: 125°C 600V ATF (File No. 033298-0-000)
- SAE-AS23053/4 class 3
- UL 224 125°C 600V ATF (File No. E75077)

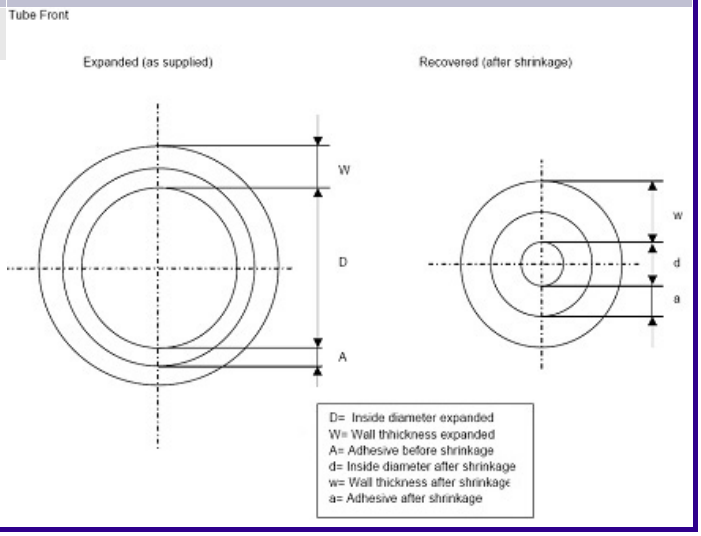


Dimensions

TRADE SIZE	BEFORE SHRINKAGE	AFTER SHRINKAGE		DELIVERY UNITS *	
[mm]	Inner diameter (EID) min. [mm]	Inner diameter (RID) max. [mm]	Wall thickness (RWT) min.-max. [mm]	Unit quantity [m]	Box quantity [m]
# 3/1	3,00	1,00	nom. 1,00	150	900
4,5/1,5	4,80	1,50	nom. 1,10	75	600
# 6/2	6,1	2,00	nom. 1,00	75	600
9/3	9,5	3,00	nom. 1,30	50	200
# 12/4	11,9	4,10	nom. 1,80	30	240
19/6	19,0	6,00	nom. 1,80	30	150
# 24/8	23,9	8,10	nom. 2,50	30	150
# 40/13	39,9	13,0	nom. 2,50	30	120

* Standard packaging: Cut-Lengths of 1200mm in bags/boxes. Spools and non standard sizes: upon request.
#: Sizes according to QPL (SAE AS23053/4 class 3)

Colours & Technical drawing

STANDARD COLOURS	SPECIAL COLOURS	TECHNICAL DRAWING
black	upon request	

Technical properties

PHYSICAL PROPERTIES			
PROPERTY	TEST METHOD	REQUIREMENT	TYPICAL VALUE *
Longitudinal change	SAE-AS23053	1% to -15%	-7%
Tensile strength (500mm/min)	ASTM D 638	Min. 10.4 MPa	14.4 MPa
Elongation at break (500mm/min)	ASTM D 638	Min. 250%	472%
Secant modulus	ASTM D 882	Max. 172 MPa	Pass

THERMAL PROPERTIES			
PROPERTY	TEST METHOD	REQUIREMENT	TYPICAL VALUE *
Operating temperature	UL 224	-55 up to 125°C	-55 up to 125°C
Min. shrink temperature	Shrink curve	Full recovery	110°C
Heat shock (250°C x 4h)	SAE-AS23053	No crack, flowing or dripping (outer wall)	Pass
Cold impact (-55°C)	SAE-AS23053	No crack	Pass
Copper corrosion (121°C x 16h)	SAE-AS23053	No corrosion	Pass
Colour stability (175°C x 24h)	SAE-AS23053	No change	Pass

CHEMICAL PROPERTIES			
PROPERTY	TEST METHOD	REQUIREMENT	TYPICAL VALUE *
Flammability	ASTM 2671	Procedure B	Pass
Water absorption	ASTM D 570	Max. 1.0%	0,49%
Fluid resistance (23°C x 24h)	SAE-AS23053	Min. 6.2 MPa (Tensile strength)	Pass
	SAE-AS23053	Min. 7.9 kV/mm (Dielectric strength)	Pass

ELECTRICAL PROPERTIES			
PROPERTY	TEST METHOD	REQUIREMENT	TYPICAL VALUE *
Voltage rating	UL224		600V
Dielectric strength	ASTM D 876	Min. 11.8 kV/mm	41.1 kV/mm
Volume resistivity	ASTM D 876	Min. 10^{14} Ω·cm	2.11 x 10^{15} Ω·cm

* For reference purposes only