SUMITUBE® W3B2S

AMS-DTL-23053/4, Cl.3
UL 224 / CSA

DUAL WALL FLEXIBLE POLYOLEFIN WITH THICK WALL ADHESIVE, SPOOLED

SUNLIGHT RESISTANT

3 : 1 Shrink Ratio

MILITARY SPECIFICATION

RoHS Compliant

TYPICAL FEATURES

1) SUMITUBE W3B2S is a sunlight resistant flexible, flame-retarded heat-shrinkable polyolefin tubing, with a thick inner wall modified polyamide adhesive that melts and flows, encapsulating and sealing components contained within.

2) SUMITUBE W3B2S meets or exceeds the requirements of SAE-AMS-DTL-23053/4, Class 3, in the sizes marked below.

3) SUMITUBE W3B2S is packaged in continuous lengths** on spools making it ideally suited for applications requiring cut pieces with minimal waste.

4) Shrink temperature is 110º C.

5) Operating temperature range is –55º C to +125º C.

6) Sumitube W3B2S has Underwriters Laboratories (UL) “SUN-RES” recognition.It is recommended for applications requiring water-proofing for cable and wire harnesses and protection of connector components. It is suitable for outdoor uses where product is required to withstand prolonged exposure to sunlight, such as solar panel wiring and related applications.

STANDARD SIZES

SIZE	INSIDE DIAMETER AS SUPPLIED (MIN) INCH	(MM)	INSIDE DIAMETER AFTER RECOVERY (MAX) INCH	(MM)	WALL THICKNESS AFTER RECOVERY (NOM) INCH	(MM)
1/8	.125	3.2	.040	1.0	.037	0.95
* 3/16	.189	4.8	.059	1.5	.043	1.1
1/4	.252	6.4	.079	2.0	.047	1.2
* 3/8	.374	9.5	.118	3.0	.051	1.3
1/2	.500	12.7	.157	4.0	.055	1.4
* 3/4	.748	19.0	.236	6.0	.071	1.8
24/8	.940	23.9	.320	8.1	.100	2.5
40/13	1.575	40.0	.512	13.0	.098	2.5

Standard Colors:	Black			
Standard Package:	Spooled			
How to Order:	(Type of material)	(Size)	(Color)	(Packaging)
Example:	W3B2S	1/2	Black	Spooled

* non SAE-Spec sizes **may contain up to 2 splices per spool, depending on size

W3B2S SPECIFICATION VALUES

PROPERTY (UNITS)	TEST METHOD	REQUIREMENTS
Physical:		
Tensile strength (psi)	ASTM D638	1500 min.
Elongation (%)	ASTM D638	250 min.
Cold impact (-55° C)	ASTM D746	no cracking
Heat shock (250° C, 4 hrs.)	AMS-DTL-23053	no cracking
Secant modulus (psi)	ASTM D882	2.5 X 10^4 max.
Longitudinal change (%)	AMS-DTL-23053	+1, -15
Electrical:		
Dielectric strength (volts/mil)	ASTM D876	500 min.
Volume resistivity (ohm-cm)	ASTM D876	1 X 10^{12} min.
Chemical:		
Corrosion	UL 224	no corrosion
Water absorption (%)	ASTM D570	1.0 max.
Fluid resistance (23°C, 24 hrs.)		
Tensile strength (psi)	AMS-DTL-23053	900 min.
Flammability	UL 224	Pass
Shrink temperature, nominal		110°C

Specification reference: UL 224, 125° C, 600V, "SUN-RES"
File E75077 YDTU2, Cat. No. SUMITUBE W3B2S
CSA LR33298
AMS-DTL-23053/4, Class 3

SUMITOMO ELECTRIC
INTERCONNECT PRODUCTS INC.
www.seipusa.com

915 Armorlite Drive
San Marcos, CA 92069

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

Rev. 07-19-11

Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

Sumitomo Electric Industries:

6098-5293 8230-5274 6185-5181 6098-2303 6181-6783 81003708 6098-0240 6098-0441 6188-0696 6188-5911 8100-1429 8100-3455 W3B2S 3/4 BLACK SPL 7161-9787 7165-0471 7165-0621 8230-5752 6185-5440 8100-1467 6098-7824 69181774 7165-1646 7165-2094 8100-3624 8100-4307 6098-7241 6195-0003 7165-0351 7165-2093 8100-0465