SUMITUBE® A2 (3X)

FLEXIBLE POLYOLEFIN THIN WALL
3 : 1 Shrink Ratio

RoHS Compliant Lead-Free Halogen-Free

TYPICAL FEATURES

1) SUMITUBE A2(3X) is a very flexible, clear, heat-shrinkable polyolefin tubing. A2(3X) is overexpanded to have a recovery ratio of 3 to 1, as opposed to the normal 2 to 1 recovery.

2) A2(3X) has a recovery temperature of 110^{O}C.

3) A2(3X) meets the material and functional requirements of AMS-DTL-23053/5C, with exception to dimensions and longitudinal change.

3) A2(3X) has an operating temperature range of -55^{O}C to +135^{O}C with up to 200^{O}C for short duration.

4) A2(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	.50
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	.480	12.0	.160	4.0	.033	.85
18/6	.720	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	1.968	50.0	.680	17.0	.059	1.50
75/25	2.953	75.0	.984	25.0	.065	1.65

Standard Colors: Clear
Standard Package: Spooled (S) (continuous lengths)

How to Order:	(Type of material)	(Size)	(Color)	(Packaging)
Example:	A2(3X)	6/2	Clear	S

A2 (3X) SPECIFICATION VALUES

PROPERTY (UNITS)	TEST METHOD	REQUIREMENT
Physical:		
Tensile strength (psi)	ASTM D638	1500 min.
Elongation (%)	ASTM D638	200 min.
Specific gravity	ASTM D792	1.35 max.
Low temperature flex (-55°C)	AMS-DTL-23053	no cracking
Heat shock	AMS-DTL-23053	no cracking
Heat resistance (175°C, 168 hrs.)		
Elongation (%)	ASTM D638	100 min.
Secant modulus (psi)	ASTM D882	2.5×10^4 max.
Longitudinal change (%)	AMS-DTL-23053	+5, -15
Electrical:		
Dielectric strength (volts/mil)	ASTM D876	500 min.
Volume resistivity (ohm-cm)	ASTM D876	1.0×10^{14} min.
Chemical:		
Corrosion	AMS-DTL-23053	no corrosion
Water absorption (%)	ASTM D 570	0.5 max.
Fluid resistance (23°C, 24 hrs.)		
Tensile strength (psi)	AMS-DTL-23053	1000 min.
Shrink temperature, nominal		110°C

Specification reference: AMS-DTL-23053/5C, Class 2, except dimensions and longitudinal change

SUMITOMO ELECTRIC

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