



ATW...MIL is a highly flexible, fast shrinking, thermally stabilised, flame-retardant polyolefin tubing. Engineered for superior insulation and resistance to oil and chemicals in rigorous environments, it's ideal for military and rail applications.

DIMENSIONS

Product	Inside Diameter (mm)		Layflat Size (mm)	Wall Thickness (mm)		Reel Length (m)
	Supplied	Recovered		Recovered		
ATW1.2BKMIL	1.2	0.6	1.8	0.41		200
ATW1.6BKMIL	1.6	0.8	2.5	0.42		200
ATW1.8BKMIL	1.8	0.9	2.8	0.42		200
ATW2.4BKMIL	2.4	1.2	3.7	0.51		200
ATW3.2BKMIL	3.2	1.6	5.0	0.51		200
ATW4.8BKMIL	4.8	2.4	7.5	0.51		100
ATW6.4BKMIL	6.4	3.2	10.0	0.64		100
ATW9.5BKMIL	9.5	4.8	14.9	0.64		100
ATW12.7BKMIL	12.7	6.4	19.9	0.64		100
ATW16BKMIL	16.5	8.2	25.1	0.7		100
ATW19BKMIL	19.1	9.5	30	0.76		100
ATW25.4BKMIL	25.4	12.7	39.8	0.89		50
ATW32BKMIL	32.0	15.9	50.2	0.89		50
ATW35BKMIL	35.0	17.5	54.9	1		50
ATW38.1BKMIL	38.1	19.1	59.8	1		50
ATW50.8BKMIL	51.0	25.4	80.1	1.15		25
ATW70BKMIL	70	35	109.9	1.6		25
ATW80BKMIL	80	40	125.6	1.7		25
ATW100BKMIL	102	50.8	160.2	1.4		25

KEY FEATURES

- Shrink ratio 2 : 1 (3 : 1 on request)
- Continuous operating temperature -55 °C to 135 °C
- Minimum shrink temperature 70 °C
- In compliance with SAE-AMS-DTL-23053/5 Class 1 and 3
- Flame retardant VW1
- Colours: Black (other colours on request)
- Corrosive resistant properties
- Excellent oil and chemical resistance

- Its superior properties make it suitable for insulation and bundling of electrical wiring and harnesses.
- The shrinking temperature makes it ideal for sensitive applications.
- Suitable for protection of corrosion-proof metallic rods and tubes.
- Provides strain relief for connectors.
- Antenna protection.



TECHNICAL DATA

Properties	Test Methods	Typical Values
Tensile strength (MPa)	ASTM D 2671/D638	≥10.4
Elongation (%)	ASTM D 2671/D638	≥ 200
Tensile strength after heat ageing (MPa)	175 °C x 168 hrs	≥ 7.3
Ultimate elongation after heat ageing (%)	175 °C x 168 hrs	≥ 100
Longitudinal change (%)	ASTM D 2671	-5% ~ +5%
Flammability	ASTM D 2671 C Method	VW-1
Voltage withstand (Dielectric)	UL 224, 2500 V, 60 s	No breakdown
Heat shock	UL 224, 250 °C, 4 hrs	No cracks, flowing or dripping
Dielectric strength (kV/mm)	ASTM D 2671	≥ 15
Volume resistivity (Ω/cm)	ASTM D 876	≥ 1 x 10 ¹⁴
Copper stability	UL224, 175 °C x 168 hrs	Pass
Low temperature flexibility	-55°C x 1 hr	No cracking