THIN WALL

ATW

KEY FEATURES

- ***Shrink Ratio 2 : 1 (3 : 1 on request)***
- ***Operating temperature -55 °C to 125 °C***
- ***Minimum shrink temperature 70 °C***
- ***Operating voltage 600 / 1000 V***
- ***Thin wall heat shrinkable tubing***
- ***Cross-linked polyolefin***
- ***Flame retardant VW-1***
- ***Colours: standard colours, green/yellow stripe***
- ***UV stable colours available on request***

ATW is a halogen-free, flame-retardant tubing designed for sensitive, enclosed environments such as trains, ships, and underground mining. It minimises acid gas formation during fires, reducing potential damage to computers, PLCs, and electronic control equipment. Free of restricted substances like Cadmium (Cd), Lead (Pb), Hexavalent Chromium (Cr6), and Mercury (Hg), it meets stringent automotive industry standards.

APPLICATION

- Quick recovery at low temperatures makes it ideal for use in electronics and telecommunication applications.
- Its flame-retardant properties make this product ideal for automotive harness applications.
- Ships, trains and underground mining.
- Enclosed areas that contain sensitive electronic equipment and computers.

DIMENSIONS

Product	Inside Diameter (mm)		Layflat size (mm)	Suitable for wire sizes (mm^2)	Wall Thickness (mm)		Reel Length (m)
	Supplied	Recovered			Supplied	Recovered	
ATW1.2	1.2	0.6	2		0.18	0.36	200
ATW1.6	1.6	0.8	2.5		0.18	0.36	200
ATW2.4	2.4	1.2	3.8	0.5	0.18	0.36	200
ATW3.2	3.2	1.6	5	1	0.20	0.40	200
ATW4.8	4.8	2.4	7.5	1.5-2.5	0.23	0.46	100
ATW6.4	6.4	3.2	10	4-6	0.28	0.60	100
ATW9.5	9.5	4.8	15	10-16	0.30	0.60	100
ATW12.7	12.7	6.4	20	25-35	0.33	0.66	100
ATW16	16.0	8	25		0.38	0.76	100
ATW19	19.0	9.5	30	50-95	0.40	0.80	100
ATW25.4	25.4	12.7	40	120-185	0.45	0.90	50
ATW32	32.0	16	50		0.45	0.90	50
ATW38.1	38.1	19	60	240-300	0.50	1.00	50
ATW50.8	50.8	25.4	80	500-630	0.50	1.00	25
ATW76	76.0	38	120		0.65	1.30	25
ATW100	100.0	50.8	160		0.65	1.30	25

Custom colours available on request

GR BR OR GRY

TECHNICAL DATA

Properties	Test Methods	Typical Values
Tensile (MPa)	UL 224	> 10.4
Elongation (%)	UL224	> 200
Heat Ageing: Tensile (MPa) : Elongation (%)	UL 224 (158 °C x 168 hrs)	> 7.3 > 100
Heat shock	UL 224 (250 °C x 4 hrs)	No cracks / dripping
Low temperature flexibility	ASTM D 2671 (4 hrs @ -35 °C)	No cracking
Copper stability	ASTM D 2671 (158 °C x 168 hrs)	Pass
RoHS (ppm)	IEC 62321(Cd, Pb, Cr^2, Hg)	< 200
Flammability	VW-1	Pass
Dielectric strength (kV/mm)	ASTM D 2671	> 15
Volume resistivity (Ω/cm)	ASTM D 257	10^{14}
Halogen test (ppm)	EN 114582 (BF, Ci, Fl, I)	< 800

STANDARD COLOURS

BK RD WT BL YL GYS

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