



The WM 3-1 Heat Shrinkable Wire Markers are made of a very flexible, highly flame retardant, high grade polyolefin tubing. SAE-AMS-DTL, UL224 and CSA recognized. Meets the requirements of a wide range of industrial and high-tech standards. Very versatile through excellent balance of chemical, electrical and mechanical properties.

Dimensions

Size, Inches	Size, mm	Minimum ID, as supplied	Maximum ID, recovered	Recovered wall thickness, mm
1/8	3.0	3.0	1.0	Nom. 0.60
3/16	4.8	4.8	1.6	Nom. 0.65
1/4	6.0	6.0	2.0	Nom. 0.70
3/8	9.0	9.0	3.0	Nom. 0.80
1/2	12.0	12.0	4.0	Nom. 0.85
3/4	18.0	18.0	6.0	Nom. 1.00
1	24.0	24.0	8.0	Nom. 1.20
1 1/2	40.0	40.0	13.0	Nom. 1.25

Technical

Properties	Test Method	Typical value
Tensile strength	ASTM D 638	13 N/mm ²
Elongation at break	ASTM D 638	≥ 400%
Longitudinal change	ASTM D 2671	-7 %
Specific gravity	ASTM D 792	1.34 g/cm ³
Secant Modulus	ASTM D 882	65 MPa

Electrical

Properties	Test Method	Typical value
Dielectric strength	UL224	≥ 37 kV/mm
Volume resistivity	ASTM D 876	3,1 x 10 ¹⁴ Ω cm
Voltage rating	UL224	600V
Dielectric Voltage Withstand (2,5 kV x60s)	UL224	Pass, no breakdown

Standard colours

Yellow, white

Blue, red, black, orange, light green on request

Material

Crosslinked polyolefin, shrink ratio 3:1

Operating temperature

-55°C to +135°C

Minimum shrink temperature

90°C

Specifications

CSA C 22.2 No. 198.1: 125°C 600V VW-1, SAE-AMS-DTL-23053/5 class 1&3 (except sizes / LC), UL 224 125°C 600V VW-1 (File No. E48762)

Notes:

This information and data is believed to be accurate and reliable. Although the information and recommendations set forth herein are presented in good faith and believed to be correct as of this date, Link Solutions makes no representations as to the completeness or accuracy thereof. We place at your disposal the technical information necessary for the correct use of our products. As conditions and methods of use are beyond our control, that the person receiving the same will make their own determination as to the suitability for their purpose.

We reserve the right to modify characteristics with the aim of improving the product and adapting it to the requirements of the market.

Chemical

Properties	Test Method	Typical value
Fungus resistance	ASTM G 21	Pass, no growth
Fluid resistance (after immersion 23°C x 24h)	SAE-AMS-DTL-23053	7,25 – 14 MPa

Thermal

Properties	Test Method	Typical value
Heat shock (250°C x 4h)	SAE-AMS-DTL-23053	No dripping, cracking or flowing, pass
Elongation after heat ageing (158°C x 4h)	SAE-AMS-DTL-23053	≥ 400%
Copper corrosion (158°C x 168h)	SAE-AMS-DTL-23053	Pass
Stability against copper (158°C x 168h)	SAE-AMS-DTL-23053	Pass
Low temperature flexibility (-55°C x 4h)	SAE-AMS-DTL-23053	No cracking
Flammability	UL224	VW-1, pass

Carrier liner

White, non-coated, medium range thermal sensitive paper cardstock.
Thickness 185 ± 10 µm. Width 109mm ± 0.5mm.

Adhesive backing

Clear, polyethylene film coated with an acrylic-based pressure sensitive adhesive.
Thickness 0.10mm. Width 72/85mm.

The products are supplied on a thermal sensitive cardstock liner converted into a ladder construction offering superb organization of the markers. The cardstock liner is die-cutted with cavities where into the sleeves are applied, supported by a backing adhesive.



Storage

Store in original packaging.
Recommended temperature at +10°C to +25°C and 45-55% relative humidity
Use within 3 years from date of Manufacture.

Printer recommended

CAB A4+ 300dpi printer

Applications

Common uses include marking, insulation, Wire bundling and mechanical protection



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