



EMARK WM - HT

The WM-HT Heat Shrinkable Wire Markers are made of semi flexible highly flame retardant polyvinylidene fluoride tubing. High temperature rated thin wall markers with high transparency. Excellent chemical and mechanical properties.

Dimensions

Size, Inches	Size, mm	Minimum ID, as supplied	Minimum ID, recovered	Recovered wall thickness, mm
3/32	2.4	2.4	1.2	Nom. 0.27
1/8	3.2	3.2	1.6	Nom. 0.27
3/16	4.8	4.8	2.4	Nom. 0.27
1/4	6.4	6.4	3.2	Nom. 0.33
3/8	9.5	9.5	4.8	Nom. 0.33
1/2	12.7	12.7	6.4	Nom. 0.33
3/4	19.1	19.1	9.5	Nom. 0.43
1	25.4	25.4	12.7	Nom. 0.48
1 1/2	38.1	38.1	19.0	Nom. 0.51
2	50.8	50.8	25.4	Nom. 0.51

Physical

Properties	Test Method	Typical value
Tensile strength	ASTM D 412	≥ 30 MPa
Elongation at break	ASTM D 412	≥ 350%
Longitudinal change	SAE-AMS-DTL-23053	-7 %
Specific gravity	ASTM D 792	1.73 g/cm ³
Secant Modulus	ASTM D 882	≥730 MPa

Electrical

Properties	Test Method	Typical value
Dielectric strength	ASTM D 2671	≥ 30 kV/mm
Volume resistivity	ASTM D 876	≥10 ¹⁵ Ω/cm
Voltage rating	600V	

Standard colours

Yellow, white

Special colours on request

Material

Fluoropolymer, shrink ratio 2:1

Operating temperature

-55°C to +175°C

Minimum shrink temperature

150°C

Specifications

SAE-AMS-DTL-23053/18 class 1
UL224 VW-1 (file no. E70631)

Notes:

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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
Fluid resistance	SAE-AMS-DTL-23053	Pass
Dielectric strength (after immersion 23°C x 24h)		UV-stable
Water absorption	ASTM D 570	≤ 0,2%
Flammability	UL224, VW-1	Pass
Fungus resistance	ASTM G 21	Pass

Thermal

Properties	Test method	Typical value
Heat shock (275°C x 4h)	SAE-AMS-DTL-23053	No dripping, cracking or flowing, pass
Elongation after heat ageing (250°C x 168h)	ASTM D 638	≥ 200%
Copper corrosion (175°C x 16h)	SAE-AMS-DTL-23053	Pass
Low temperature flexibility (-55°C x 4h)	SAE-AMS-DTL-23053	Pass
Copper corrosion (160°C x 16h)	SAE-AMS-DTL-23053	Pass
Clarity stability (200°C x 24h)	SAE-AMS-DTL-23053	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+M 300dpi printer

Applications

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

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