LINK SOLUTIONS

WM - HT Heat Shrinkable Wire Markers

10/2010

MARK 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.

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)

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 ½	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/cm³
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	$\geq 10_{15}$ Ω/cm
Voltage rating	600V	

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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.

RoHS

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