



## SMARK WM - C3

The WM-C3 Heat Shrinkable Wire Markers are made of a very flexible and self extinguishing polyolefin tubing. UL224 recognized. Meets most industrial the requirements and is dedicated for flattening and thermal transfer printing purposes.

### Dimensions

Size, Inches	Size, mm	Minimum ID, as supplied	Minimum ID, recovered	Recovered wall thickness, mm
3/32	2.4	2.4	0.8	0.43-0.63
1/8	3.2	3.2	1.0	0.43-0.68
3/16	4.8	4.8	1.6	0.43-0.68
1/4	6.4	6.4	2.0	0.56-0.71
3/8	9.5	9.5	3.0	0.56-0.71
1/2	12.7	12.7	4.0	0.56-0.80
3/4	19.0	19.0	6.0	0.80-1.00
1	25.4	25.4	8.0	0.81-1.15
1 ½	38.1	38.1	12.7	0.90-1.25

### Physical

Properties	Test Method	Typical value
Tensile strength	ASTM D 638	>11 N/mm <sup>2</sup>
Elongation at break	ASTM D 638	>200%
Longitudinal change	ASTM D 2671	≤+5 %, ≤-10%
Specific gravity	ASTM D 792	1.4 g/cm <sup>3</sup>
Water absorption	ASTM D 570	0.20%

### Electrical

Properties	Test Method	Typical value
Dielectric strength	ASTM D 2671	20 kV/mm
Volume resistivity	ASTM D 257	10 <sup>14</sup> Ω cm

### Standard colours

Yellow, white

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

### Material

Cross linked polyolefin, shrink ratio 3:1

### Operating temperature

-55°C to +135°C

### Minimum shrink temperature

>90°C

### Specifications

SAE-AMS-DTL-23053/5 class 1,  
UL 224 125°C 600V VW-1 (File No. E228117)

### 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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