# Technical data sheet



# WM –C3 Heat Shrinkable Wire Markers

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# SMARKWM - 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 1⁄2	38.1	38.1	12.7	0.90-1.25

# Physical

Properties	Test Method	Typical value	
Tensile strength	ASTM D 638	>11 N/mm²	
Elongation at break	ASTM D 638	>200%	
Longitudinal change	ASTM D 2671	≤+5 %,<-10%	
Specific gravity	ASTM D 792	1.4 g/cm³	
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	1014 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

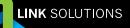
SAE-AMS-DTL-23053/5 class 1, UL 224 125°C 600V VW-1 (File No. E228117)

# Notes:

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.

# 10/2010



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# WM - HT Heat Shrinkable Wire Markers

# Chemical

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

# Thermal

Properties	Test method	Typical value
Heat shock (275°C x 4h) Elongation after heat ageing (250°C x 168h)	SAE-AMS-DTL-23053 ASTM D 638	No dripping, cracking or flowing, pass ≥ 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  $\pm$  10  $\mu m.$  Width 109mm  $\pm$  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.



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# 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