



## EMARKCON - 3-1

The CON-3-1 Heat Shrinkable Endless Sleeving 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	Minimum 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

### Physical

Properties	Test Method	Typical value
Tensile strength	ASTM D 638	13 N/mm <sup>2</sup>
Elongation at break	ASTM D 638	≥ 400%
Longitudinal change	ASTM D 2671	-7 %
Specific gravity	ASTM D 792	1.34 g/cm <sup>3</sup>
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 <sup>14</sup> Ω cm
Voltage rating	UL224	600V
Dielectric Voltage Withstand (2,5 kV x60s)		

### 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

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

**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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