



TECHNICAL DATA SHEET

SHIELDING SOLUTIONS MCF-NCP001 METALLISED CONDUCTIVE FOAM MATERIAL

Product overview

MCF-NCP001 is an EMI gasket material comprising of a nickel over copper plated polyurethane foam. This material offers a combination of good conductivity in three axes with low compression force. It is ideally suited to static or low cycling applications such as I/O shielding (grounding).

In standard form the material is supplied with a conductive acrylic pressure sensitive adhesive on one face although it can also be supplied with adhesive on both faces. The non-adhesive face is reinforced with a conductive polyurethane resin binder.

Key features

- Good XYZ conductivity
- RoHS compliant
- Easily punched / cut and installed
- Long-term stable conductivity
- External compression limits/control not normally required
- Ideally suited for applications such as multiple I/O port shielding
- Available in sheet or pre-cut to drawing



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Material Properties

Thicknesses available (mm)	0.5, 1.5, 2.0, 3.0, 4.0, 5.0, 6.0
Thickness tolerance	+0.3mm
Resistance / cm ² (5N compressive force)	<0.2Ω
PSA peel strength 180° / 25mm test width / 304 S/Steel	>8N
Shielding performance (attenuation) to MIL-STD 285 -	
- 100MHz E field	>100 dB
- 500MHz E field	>100 dB
- 1GHz Plane wave	>80 dB
Service temperature range	-10°C to +60°C



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