



## TECHNICAL DATA SHEET

### SHIELDING SOLUTIONS MFG(NiCu) METALLISED CONDUCTIVE FABRIC OVER FOAM MATERIALS

#### Product overview

MFG(NiCu) Fabric over Foam material is an EMI gasket material comprising of a nickel over copper plated polyester rip-stop fabric over polyurethane foam. This material offers a combination of good conductivity in three axis with low compression force. The metallised fabric covering has an inherently low friction or free sliding surface making some gasket profiles suitable for applications that involve a 'wiping' action.

In standard form the material can be supplied with a conductive acrylic pressure sensitive adhesive on one face. Additionally there are certain sections such as some 'C' fold and 'D' profiles are available mounted on a clip strip for convenient mounting on to panel edges.

#### Key features

- Good X, Y, Z conductivity
- RoHS compliant
- Easily cut and installed
- Long-term stable conductivity
- External compression limits/control not normally required
- Extremely good wear characteristics – resistant to abrasion and shear action
- Available with adhesive backing enabling easy fitting
- Available in a very wide range of profiles/cross-section sizes
- Non flammable to UL94-V0



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#### Material Properties

Flame Retardant	UL94-V0
General tolerance	+/-0.3mm
Resistance / cm <sup>2</sup> (5N compressive force)	<0.2Ω
PSA peel strength 180° / 25mm test width / 304 S/Steel	>8N
Compression Set	30%
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 +100°C



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