

SHIELDING SOLUTIONS CONDUCTIVE METALLISED FABRIC MFS-NCRS001

Product overview

MFS-NCRS001 is a nickel over copper plated PET based rip-stop fabric. It is both extremely flexible and durable with a very high resistance to tearing. The textile yarn is uniformly plated throughout its cross-section providing consistent low resistivity. Furthermore this arrangement ensures that the fabric is particularly resistant to abrasion as 'fresh' plated fibres are continually exposed as the outer surface wears

Main Features

- High electrical conductivity providing effective shielding
- Low surface contact resistance
- Mechanically durable – resistant to tearing, abrasion etc
- Very good resistance to oxidation/ageing
- Flame retardant UL94-V1 and V0 grades available

Product overview

- Versatile shielding medium –
 - Lining non-metallic enclosures or rooms
 - Fabricating inserts e.g. tube, tray etc to isolate circuit or device within an enclosure
 - High degree of conformability allows the wrapping modules/devices etc
 - Flexible EMI shield e.g. curtain, bellows
 - EMI gaskets
 - Static charge (ESD) control

Please contact for further advice on applications and use

Properties

Thickness	0.09mm
Weight	73gm ⁻²
Weave density (warp / weft)	43 / 58 per cm
Surface resistance	0.05 Ω/□
Shielding effectiveness (100MHz – 500MHz)	80 -65dB
Tensile strength (warp / weft)	3.5 / 4.5MPa
Elongation (warp / weft)	24 / 28%
Service temperature range	-40°C to 150°C

Product overview

This material is available in various formats e.g. adhesive coated on one or both sides. It can also be supplied over plated with silver or gold for improved electrical performance or supplied in a conductive black finish. Please contact us if you would like further details or if you have a specific requirement.

Product notes

To the best of our knowledge the information contained in this data sheet is accurate and representative of the product.

We recommend that the end user performs their own tests to determine the suitability of the product in their application

The values shown on this data sheet are typical should not be used as a basis of a specification

Information supplied as to the suggested applications for this product should not be construed as constituting a license or concession to infringe any patent. Furthermore we cannot warrant that the sale or use of this product will not infringe any patent involving any application of this product either on its own or in combination with other materials or process



Shielding Solutions Ltd
Unit 17
46 Springwood Drive
Braintree
Essex
CM7 2YN

Tel: 01376 330033
Fax: 01376 339163
Web: www.shielding-solutions.com

SSL/TDS/82