**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**

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