



TECHNICAL DATA SHEET

SHIELDING SOLUTIONS ECT-CNFR001 ELECTRICALLY CONDUCTIVE METALLISED FABRIC ADHESIVE TAPE

Product overview

ECT-CNFR001 is a nickel over copper plated PET based rip-stop fabric tape with a pressure sensitive conductive adhesive. 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. It is particularly suited to applications such as cable shielding and EMI proofing seams in sheet metal cabinets.

Main features

- High electrical conductivity providing effective shielding
- Extremely flexible / conformable
- Low surface contact resistance
- Mechanically durable – resistant to tearing, abrasion etc
- Very good resistance to oxidation/ageing
- High peel strength adhesive
- Vibration resistant

Applications

- Versatile shielding medium –
- Cable shielding
- EMI sealing of panel joints / seams in sheet metal enclosures
- Lining non-metallic enclosures or rooms
- High degree of conformability allows the wrapping modules/devices etc
- Static charge (ESD) control
- EMI gaskets



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Material Properties

Fabric tape thickness	0.09mm
Pressure sensitive adhesive thickness	0.04mm
Metallisation (plating)	Nickel / Copper
Fabric	PET
Tensile strength	5kgcm ⁻¹
Surface resistance	0.05Ω/□
Adhesive peel strength	5N cm ⁻¹
Service temperature range	-40°C to +85°C

Format

This tape is typically available in widths of 25mm, 50mm, 100mm but can be supplied in any required width to special order. This material can also be supplied in pre-cut profiles to suit your application.

Standard reel length is 50m (164ft)



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Product notes

To the best of our knowledge the information contained in this data sheet is accurate and representative of the product, however, it is the responsibility of the user to determine the suitability, safety and legality of use in any application

We recommend that the end user performs an evaluation to determine the suitability of the product in their application

This product is not intended for direct use in food, medical and cosmetic applications

The values shown on this data sheet are typical and 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



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