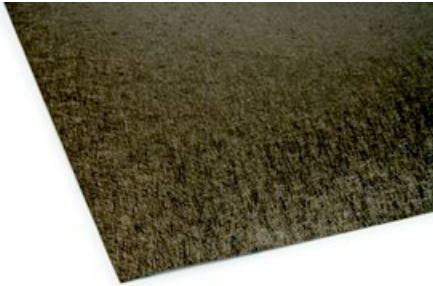




Electronics

3M™ Shielding Non-woven Fabric Tape CN-3490

3M ID AM000002106



3M™ Shielding Non-woven Fabric Tape CN-3490 has a thin 2.0-mil nickel copper-coated non-woven fabric backing with a conductive pressure-sensitive adhesive and liner.

Features and Benefits

- Nickel on copper-plated polyester fabric backing provides corrosion resistance and good shielding effectiveness.
- Polyester non-woven fabric makes a very thin and mechanically strong backing with excellent flexibility and conformability, and light weight.
- Polyester non-woven fabric is also easily handled (minimizes finger laceration) and easily converted (slitting and die cutting).
- Conductive particles in the adhesive provides low contact resistance between the substrate and the backing to drain static charge.
- Acrylic pressure-sensitive adhesive has good resistance to heat, oxidation, solvents and oils.
- Removable liner makes it easy to handle and die cut complex shapes.
- There are both standard and custom roll widths and lengths to meet a variety of application needs.

Overview

Documents

Suggested Applications

- Common conductive fabric tape for RFI/EMI (radio-frequency interference or electromagnetic interference) shielding and ESD (electrostatic discharge) grounding for components, integrated circuits, connectors, cables, motors, equipment enclosures/cabinets and shielded rooms.
- Used in jobs requiring very thin backing with excellent conformability and flexibility while providing good shielding effectiveness.
- Better than just copper plating for use in corrosive environments, as nickel on copper plating resists oxidation and corrosion.

Additional Information

The CN-3490 tape has conductive non-woven backing offers the additional benefits of excellent flexibility and conformability, very light weight, exceptional strength and resistant to oxidation, solvents and oils. The nonwoven backing also minimizes the possibility of finger laceration. Highly conductive particles in the acrylic adhesive provide a multitude of electrical paths between the application substrate and the surface of the conductive non-woven backing. Acrylic adhesive has good resistance to heat, oxidation, solvents and oils. This tape is designed for a variety of applications: EMI/RFI shielding, grounding and static charge draining. These tapes can used in both electronic & electrical devices, shielding connectors & cables, shielded rooms and EMI test laboratories for prototyping, design and troubleshooting. The CN-3490 tape is available from 3M in log rolls (standard size of 39.4 inch x 54.5 yds or 1000 mm x 50,0 m) to 3M slitter/converters. Also, 3M offers to 3M authorized distributors (and slitter/converters) various size slit rolls for resale to end users. Custom die-cut parts are available from 3M slitter/converters.

Product Attributes

Adhesive Type	Single-Sided Conductive Acrylic PSA
Application	EMI Shielding, Grounding

Application Category	EMI/EMC Applications
Backing Thickness	2.0 mil
Backing Thickness (metric)	0.051 mm
Backing Type	Metalized Non-Woven
Product Series	CN-3490
Shielding Effectiveness	65 @ GHz (dB)
Tape Type	Conductive Fabric
Total Tape Thickness without Liner	2.6 mil
Total Tape Thickness without Liner (metric)	0.066 mm

Product Disclaimer

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