



Fabric Tape CN-3190

Nickel on Copper-Plated Polyester Fabric

Data Sheet

Product Description

3M™ Nickel on Copper-Plated Polyester Fabric Tape CN-3190 consists of anti-corrosion polyester rip-stop fabric and unique electrically conductive pressure-sensitive acrylic adhesive.

- Anti-corrosion treated Cu/Ni conductive fabric
- Conductive acrylic adhesive
- Supplied on a removable liner for easy handling and die cutting

Like all 3M shielding tapes, CN-3190 fabric tape is available in standard and custom widths and lengths. Standard length is 25M.

- Widths from 6mm to 1050mm
- Longer lengths up to several times normal lengths, dependent upon width. Check with Customer Service

Applications

CN-3190 fabric tape is used in applications typically served by metal foil shielding tapes such as grounding

and EMI shielding equipment, components, shielded rooms, etc.

The unique metal-plated fabric backing offers the additional benefits of excellent flexibility and conformability, very light weight, and exceptional strength. The fabric backing also minimizes the possibility of finger lacerations.

Shielding Effectiveness

Many factors determine the true shielding effectiveness of a shielding tape, including type and thickness of foil, adhesive type, intimacy of contact, smoothness of application surface, strength and frequency of the EMI signal, etc. However, using standard tests and fixtures it is possible to determine a value for the attenuations. For CN-3190 fabric tape, typical shielding effectiveness is in the range of 65dB to 70dB. Before using this product, the user must evaluate it and determine if it is suitable for the intended application.

Properties	Typical Value
Backing thickness	5.0 mil (0,125mm)
Total thickness (backing plus adhesive)	7.0 mil (0,177mm)
Breaking strength ¹	55 lb/in (96 N/10mm)
Adhesion to steel ¹	52 oz/in (5,6 N/10mm)
Electrical resistance through adhesive ²	0.005 ohm

* Foot notes:

1. ASTM-D-1000 Test method
2. MIL-STD-202 Method 307 maintained at 5 psi (3,4 N/cm²) measured over 1 in² surface area. Conductive particles in the adhesive provide the electrical path between the application substrate and the foil backing.

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Electrical Markets Division

6801 River Place Blvd.
Austin, TX 78726-9000
www.3M.com/emc

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