

3MTM Fabric Tape CN-3190

Nickel on Copper-Plated Polyester Fabric

Data Sheet

September 2008

Description

3MTM Fabric Tape CN-3190 consists of anti-corrosion polyester rip-stop fabric and unique electrically conductive pressure-sensitive acrylic adhesive.

Applications

3M CN-3190 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.

Typical Properties

Technical information provided consists of typical product data and should not be used for specification purposes. Unless otherwise noted, all tests are performed at room temperature.

Physical

Property (Test Method) (ASTM D1000 unless noted)	Typical Value US units (metric)
Color	Grey
Adhesive	Conductive acrylic
Type of Backing	Copper/Nickel coated ripstop polyester
Total Thickness (backing plus adhesive)	4.3 mils (0,11 mm)
Liner Thickness	5.8 mils (0,14 mm)
Breaking Strength	40 lb/in (18 kgf/25 mm)
Adhesion Strength	31 oz/in (900gf/25 mm)



3M™ Fabric Tape CN-3190

Nickel on Copper-Plated Polyester Fabric

Typical Properties

Electrical

Property (Test Method) (ASTM D1000 unless noted)	Typical Value US units (metric)
Electrical Resistance Through Adhesive ¹	0.05 ohms

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

Specifications

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

Shelf Life & Storage

The tape has a 5-year shelf life from date of manufacture when stored in a clean, dry place at a temperature of 70° F (21° C) and 40-50% relative humidity.

Availability

For availability, please contact your local distributor. Names and addresses are available from 3M.com/electrical [Where to Buy] or call 1-800-676-8381.

Important Notice

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

Warranty; Limited Remedy; Limited Liability

This product will be free from defects in material and manufacture at the time of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.**

3M is a trademark of 3M Company.



Electrical Markets Division
6801 River Place Blvd.
Austin, TX 78726-9000
800 676 8381
FAX 800 828 9329
www.3M.com/electrical/oem

Please recycle.
© 3M 2008 All rights reserved.
78-8126-9843-5_B



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.