3M™ Copper Foil Tape 1126

Copper Foil with Conductive Adhesive

Data Sheet **May 2014**

Description

3M™ Copper Foil Tape 1126 consists of a 1-ounce rolled copper foil backing and an electrically conductive, pressure-sensitive acrylic adhesive. This tape is supplied on a removable liner for easy handling and die-cutting. It has excellent solder ability.

Agency Approvals & Self Certifications

Meets flame retardant requirements of UL510, Product Category

RoHS

2011/65/EU

"RoHS 2011/65/EU" means that the product or part does not contain any of the substances in excess of the maximum concentration values ("MCVs") in EU RoHS Directive 2011/65/EU. The MCVs are by weight in homogeneous materials. This information represents 3M's knowledge and belief, which may be based in whole or in part on information provided by third party suppliers to 3M.

Applications

3M Copper Foil Tape 1126 is typically used as an EMI/RFI shielding tape for applications in the electronics industry such as static charge draining, seaming shielded rooms, cable wrapping and surface contact to non-solderable materials.

Shielding Effectiveness

Many factors determine true shielding effectiveness of a shielding tape, including type and thickness of foil, adhesive type, intimacy of contact, smoothness of application surface, frequency of the EMI signal, etc. Typical shielding effectiveness for 1126 Tape is >85dB, 1MHz to 2 GHz, ASTM-4935 test method..

Typical Properties

Not for specifications. Values are typical, not to be considered minimum or maximum.

Properties measured at room temperature 73°F (~23°C) unless otherwise stated.

Physical

Property (Test Method)	Typical Value US units (metric)
Color	Copper
Adhesive	Acrylic Conductive
Type of Backing	Copper
Backing Thickness	1.4 mil (0,04mm)
Total Thickness (ASTM D1000)	3.5 mils (0,088mm)
Electrical Resistance[1]	0.005 Ω/□
Flame Retardancy[2]	Pass
Breaking Strength (ASTM D3759)	25 lbs/in (44N/10mm)
Elongation -% at break	5%
Adhesion Strength (ASTM D3330)	35 oz/in (3.8N/10mm)
Temperature Range	-40ºC to +130ºC
Shielding Effectiveness[3]	>85 dB, 1MHz to 2 GHz

1. Mil-STD-202 Method 303 maintained at 5 psi (3.4N/cm2) measured over 1 in2 surface area. Conductive particles in the adhesive provide the electrical path between the application substrate and the foil backing.
2. UL Recognized for flame retardancy per UL 510, Product Category OANZ2, File E17385
3. ASTM-4935 Test Method

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Shelf Life & Storage	This product has a 5-year shelf life from date of manufacture when stored in a humidity controlled storage (10°C/50°F to 27°C/80°F and <75% relative humidity).
Availability	Please contact your local distributor; available from 3M.com/oem [Where to Buy] or call 1-800-676-8381.

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