



# 3M™ EMI Copper Foil Shielding Tape 1182 with Double Coated Electrically Conductive Acrylic Adhesive

**Data Sheet** **June 2021**

**Product Description** 3M™ EMI Copper Foil Shielding Tape 1182 is a 3.5-mil (0.089 mm) thick tape composed of a 1.4-mil (0.036 mm) flat copper foil backing coated on both sides with a non-corrosive, electrically conductive acrylic pressure-sensitive adhesive supplied on a removeable liner.

- Commonly used for bonding two surfaces together, both physically and electrically
- Provides low z-axis resistance connection between substrates
- Can be die-cut and offers a multitude of uses in electrical design and test laboratories for prototyping, design and troubleshooting.
- Adhesive requires no moisture, solvents, heat or other manner of preparation to affect application
- Flame Retardant per UL-510A Standard

### Properties

Physical Properties	Value Imperial (Metric)	Electrical Properties	Value Imperial (Metric)
<b>Color - Visual</b>	Copper	<b>Electrical Resistance<sup>4</sup> - Maximum</b>	0.010 Ω/in <sup>2</sup>
<b>Adhesive</b>	Double Coated Electrically Conductive Acrylic	<b>Shielding Effectiveness<sup>3</sup> - Average 300 kHz – 2.5 GHz</b>	54 dB
<b>Backing</b>	Copper Foil - Flat		
<b>Flame Retardant<sup>2</sup></b>	Pass		
Mechanical Properties	Value Imperial (Metric)		
<b>Backing Thickness - Nominal</b>	1.4 mil (0.036 mm)		
<b>Total Thickness<sup>1</sup></b>	3.5 +/- 0.5 mils (0.089 +/- 0.013 mm)		
<b>Adhesion to Steel<sup>1</sup> - Minimum</b>	25 oz/in (2.7 N/cm)		
<b>Breaking Strength<sup>1</sup> - Minimum</b>	22 lb/in (39 N/cm)		

**Notes:**

1. ASTM D1000 Test Method - properties measured at room temperature 73°F (23°C) unless otherwise stated
2. UL Recognized Flame Retardant per UL510A Standard, Category OARC2, File No. E17385
3. ASTM D4935 Test Method - properties measured at room temperature 73°F (23°C) unless otherwise stated
4. Test Method: MIL-STD-202 Method 307 maintained at 5 psi (3.4 N/cm<sup>2</sup>) measured over a 1 in<sup>2</sup> surface area
  - a. Silver coated glass beads embedded in acrylic adhesive provide the electrical path between application substrate and foil backing

**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, frequency of the EMI signal, etc.

**Agency Approvals & Self Certifications**

- UL Component Recognized: UL510A Standard, Category OARC2, File No. E17385
- For Regulatory information including RoHS, REACH, please visit [www.3M.com/regs](http://www.3M.com/regs)

**Shelf Life & Storage** This product has a 5-year shelf life (from date of manufacture) when stored in humidity-controlled storage (50°F/10°C to 80°F/27°C and <75% relative humidity).

**Availability** 3M™ EMI Copper Foil Shielding Tape 1182 available from 3M authorized distributors / converters

Also available from [3M.com/oem](http://3M.com/oem) or call 1.800.245.3573.

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