

3M 1181 Copper Foil Tape is a high quality, highly specialised grade of copper tape designed for electro-magnetic interference (EMI) shielding. This grade is manufactured by 3M using a dead-soft copper foil backing coated on one side with a pressure sensitive acrylic adhesive. This adhesive is highly specialised as it exhibits excellent electrical conductivity.



3M 1181 Copper Foil Tape is flame retardant and has a total thickness of just 0.066mm (0.04mm of which is made up of the copper backing). It bonds well to most surfaces and substrates. The copper foil backing can be soldered and resists oxidation and discolouration.

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**Applications**

- EMI Shielding
- Grounding equipment
- Creating a conductive path between surfaces and components

**Technical Details**

| Property  | Value  |
|---|--|
| Backing   | Dead-soft Copper Foil                          |
| Adhesive Type   | Conductive Acrylic Pressure Sensitive Adhesive |
| Colour  | Copper   |
| Backing Thickness                                       | 0.04mm   |
| Total Thickness   | 0.066mm  |
| Breaking Strength <sup>1</sup>                          | 44 N/10mm                                      |
| Adhesion to Steel <sup>1</sup>                          | 3.8 N/10mm                                     |
| Electrical Resistance through the Adhesive <sup>2</sup> | 0.005 ohm                                      |
| Flame Retardancy <sup>3</sup>                           | Pass   |

1 Test Method ASTM D 1000

2 MIL-STD-202 Method 307 maintained at 5 psi (3.4 N/cm<sup>2</sup>) measured over 1 in<sup>2</sup> surface area. Conductive particles in the adhesive provide the electrical path between the application surface and the foil backing.

3 UL Recognised for Flame Retardancy per UL 510, Product Category OANZ2, File E17385

**Important**

The values listed here and the information presented should not be treated as a substitute for specific technical advice. We cannot warrant the products performance or suitability for particular applications.

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**Available Sizes***Standard Roll Widths and Length*

- 6mm
- 9mm
- 12mm
- 15mm
- 18mm
- 21mm
- 24mm

All rolls are 16.46 Mtrs long.

*Custom sizes, lengths and request*

We're always happy to help with special requirements. If you require die cut components or a special sized tape version of 3M 1181 Copper Foil Tape please do let us know. We'll do our very best to help in any way we can.

3M is a registered trademark of 3M.

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