3M Fabric Tape AG-2300 Conductive Silver Fabric

Data Sheet

Product Description

3M[™] Conductive Silver Fabric Tape AG-2300 consists of:

- Silver-coated conductive fabric
- Conductive acrylic adhesive
- Supplied on a removable liner for easy handling and die cutting

3M Conductive Silver Fabric Tape AG-2300 is available in standard size and custom widths and lengths.

- Widths from 6mm to 1000mm
- Standard length is 50M.
- Longer lengths up to several times normal length, dependent upon width. Check with a 3M sales representative.

Applications

3M Conductive Silver Fabric Tape AG-2300 is typically used for applications requiring excellent electrical conductivity from the application substrate through the adhesive to the conductive fabric backing. Common uses include grounding and EMI shielding in equipment, components, shielded rooms, etc.

Shielding Effectiveness

Many factors determine the shielding effectiveness of a conductive adhesive tape, including type and thickness of the conductive layers, adhesive strength, degree of contact, smoothness of application surface, frequency, etc. For 3M Conductive Silver Fabric Tape AG-2300, typical shielding effectiveness is in the range of 65dB to 70dB when tested according to ASTM D4935 standard.

Typical Values

| Properties | Typical Value |
|---|---------------------------------------|
| Type of Backing | Silver-coated conductive fabric |
| Type of Adhesive | Conductive acrylic adhesive |
| Total thickness (backing plus adhesive) | 0.10 mm (4.0 mils) |
| Breaking strength ¹ | 22 kg/25 mm (50 lb/in) |
| Elongation ¹ | 20% |
| Adhesion strength ¹ | 1100 g _f /25 mm (39 oz/in) |
| Electrical resistance through adhesive ² | 0.005 Ω |
| Shielding effectiveness ³ | Refer to attenuation chart |
| Eastrates 1 ACTM D 1000 Test Mathed | |

Footnotes: 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 conductive backing.

3. ASTM-D-4935 Test Method

Shielding Effectiveness



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