Kemtron
Proven EMC Shielding Performance

Conductive Adhesive Tapes

Product Overview

Electrically conductive foil tape is manufactured by applying a conductive adhesive to one or both surfaces of a metal foil such as copper or aluminium. This is then either self wound or has a separate release liner applied. This is then slit to standard or custom widths.

Applications
- Temporary sealing of gaps for EMC testing.
- PCB shields.
- Cable shields.
- Shielded room seams.

Availability
Normally supplied in 33 metre rolls, in standard widths of 13mm & 25mm. However any width from 8mm up to approx 200mm, and 50 metre rolls can be supplied to special order. We can also supply with non-conductive adhesive or without adhesive if required, to special order.

Tapes can be supplied in two versions – Self Wound, without a release liner, or with a paper release liner. Versions having the paper release liner have a suffix -6 added to the part number.

Example			
Copper Tape	with conductive adhesive with release liner	=	9115-6
	without release liner	=	9115

- Die cut parts
- Kiss cut parts

Design Considerations
- Consider if it is a temporary or permanent solution.
- Galvanic compatibility.
- Adhesive strength.

Production Capabilities
- Die cutting.
- Slitting.
- Laminating.

Material	Part No
Aluminium Tape with conductive adhesive for EMI shielding.	9015
Copper Tape with non-conductive adhesive.	9110
Copper Tape with conductive adhesive for EMI shielding, solderable.	9115
Copper Tape with conductive adhesive on both sides for EMI shielding.	9116
Tin-clad Copper Tape with non-conductive adhesive, solderable.	9510
Tin-clad Copper Tape with conductive adhesive, solderable.	9515

Notice
Information supplied in these data sheets is based on independent and laboratory tests which Kemtron believes to be reliable. Kemtron has no control over the design of customer's product which incorporates Kemtron's products, therefore it is the responsibility of the user to determine the suitability for his particular application and we recommend that the user make his own test to determine suitability.

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Technical Specification

Materials

9015: Aluminium Tape with Conductive Adhesive for EMI Shielding

Stocked in 25mm widths.

Base thickness	0.040mm
Total thickness	0.065mm
Adhesive strength	4.5 N/cm
Tensile strength	25 N/cm
Temperature resistance	155°C
Electrical resistance through adhesive*	0.003 Ohms

9110: Copper Tape with Non-Conductive Adhesive

** Special order only

Base thickness	0.035mm
Total thickness	0.070mm
Adhesive strength	4.5 N/cm
Tensile strength	55 N/cm
Temperature resistance	155°C

9115: Copper Tape with Conductive Adhesive for EMI Shielding, Solderable

Stocked in 13mm & 25mm width.

Base thickness	0.035mm
Total thickness	0.060mm
Adhesive strength	4.5 N/cm
Tensile strength	55 N/cm
Temperature resistance	155°C
Electrical resistance through adhesive*	0.003 Ohms

Shielding Effectiveness

20MHz	100MHz	500MHz	1GHz
62.5dB	54dB	55dB	52.5dB

9116: Copper Tape with Conductive Adhesive on both sides for EMI Shielding

** Special order only

Base thickness	0.035mm
Total thickness	0.085mm
Adhesive strength	4.5 N/cm
Tensile strength	55 N/cm
Temperature resistance	155°C
Electrical resistance through adhesive*	0.003 Ohms

9510: Tin-clad Copper Tape with Non-Conductive Adhesive, Solderable

** Special order only

Base thickness	0.035mm
Total thickness	0.060mm
Adhesive strength	4.5 N/cm
Tensile strength	40 N/cm

9515: Tin-clad Copper Tape with Conductive Adhesive, Solderable

** Special order only

Base thickness	0.035mm
Total thickness	0.060mm
Adhesive strength	4.5 N/cm
Tensile strength	40 N/cm
Temperature resistance	155°C
Temperature resistance	155°C
Electrical resistance through adhesive*	0.003 Ohms

Shielding Effectiveness

20MHz	100MHz	500MHz	1GHz
62.5dB	58.5dB	50dB	61.5dB

* Electrical resistance tested according to MIL STD 202F Method 307, across surface area of 25.4 sq mm Conductive foil tape