CONDUCTIVE ADHESIVE TAPE

Introducing TE Connectivity's Conductive Adhesive Tape – solution designed to meet the demanding requirements of modern electronic applications. Our conductive adhesive tape offers exceptional electrical conductivity, reliable adhesion, and superior flexibility, making it ideal for a wide range of uses, from shielding and grounding to thermal management. Engineered with precision and quality, this tape ensures optimal performance and durability, helping you achieve seamless integration and enhanced functionality in your projects. Trust TE Connectivity to deliver innovative products that drive your success in today's fast-paced technological landscape.

APPLICATIONS

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

DESIGN CONSIDERATIONS

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

All metal foil based products have a tendency to be malleable or “have memory”.It is therefore important that when applying any metal foil based tapes that this “memory” is removed. This can be done by ensure that once the tape has been laminated in position that it is then smoothly rolled in situ. This process will tend to remove the deformations/kinks that can arise during manual application of the tape sections.

AVAILABILITY

Supplied in 20 meters, in standard widths of 12.7mm & 25.4mm.

Tapes can be supplied in two versions – Self Wound, without a release liner, or with a paper release liner. Version with Adhesive layer on both sides have a suffix - D added to the part number.

- Die cut parts
- Kiss cut parts

Both Die cut parts or Kiss cut parts version available depending on your requirement.

PRODUCTION CAPABILITIES

- Die cutting
- Slitting
- Laminating

ALL TAPES ARE SELF-ADHESIVE WITH ELECTRICALLY CONDUCTIVE ADHESIVE

Materials	Series
Soft copper	3000
Soft copper with double sided adhesive	3000-D
Tin/Silver clad copper	3050
Soft Aluminum	3020
Embossed copper	3010
Embossed Tin clad copper	3040
Embossed aluminum	3030

Soft Aluminium Self-Adhesive Tape with conductive acrylic adhesive (3020 Series)

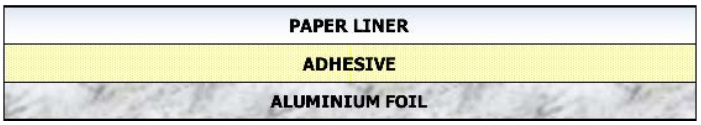
DESCRIPTION

Based on a soft aluminium foil which is coated on one side with a high performance electrically conductive acrylic adhesive. Supplied on a paper interliner.

APPLICATIONS

- EMI / RFI shielding
- Electrical grounding
- Static charge draining
- Cable and connector shielding

CONSTRUCTION



PHYSICAL PROPERTIES	EN VALUE*	ASTM VALUE**	TEST METHOD
Supporting base	Aluminium foil	-	-
Base thickness	0.060 mm	2.4 mils (0.060 mm)	BS 3924
Total thickness	0.085 mm	3.3 mils (0.085 mm)	BS 3924
Adhesive	Conductive acrylic adhesive	-	-
Adhesive strength	4.0 N/cm	36.0 OZ/inch	ASTM D 1000
Tensile strength	40.0 N/cm	23.0 Lbs/inch	EN 60454
Elongation	10 %	10 %	EN 60454
Application temperature	-20°C to 155°C / -4°F to 311°F	311°F	-
Electrical resistance through adhesive***	0.10 – 0.50 Ω/Sq. inch	-	***
Interliner	Siliconised paper	-	-

TCPN	Alias	Lining paper (Y/N)	Base Materials	Single-sided (S)/ double-sided (D)	Tape Width (mm)	Length (M)
2508722-1	3020-S-0060-0085-6.35-20M	Y	Aluminum	S	6.35	20
2508723-1	3020-S-0060-0085-12.7-20M	Y	Aluminum	S	12.7	20
2508724-1	3020-S-0060-0085-19.05-20M	Y	Aluminum	S	19.05	20
2508725-1	3020-S-0060-0085-25.4-20M	Y	Aluminum	S	25.4	20
2508726-1	3020-S-0060-0085-50.8-20M	Y	Aluminum	S	50.8	20

*EN 60454 / **ASTM D-1000 / *** MILS STD 202G/F Method 307

Self-Adhesive Conducting Tape Based on Embossed Aluminium (3030 Series)

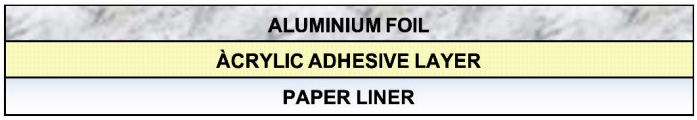
DESCRIPTION

Based on an embossed soft aluminium foil which is coated with a high performance electrically conductive acrylic adhesive. Supplied on a paper interliner.

APPLICATIONS

Has a wide range of applications in the suppression of domestic appliances and electronic equipment to eliminate electrical interference.

CONSTRUCTION



PHYSICAL PROPERTIES	EN VALUE*	ASTM VALUE**	TEST METHOD
Supporting base	Aluminium foil	-	-
Base thickness (before embossing)	0.060 mm	2.4 mils (0.060 mm)	BS 3924
Total thickness (after embossing)	0.100 mm	4.0 mils (0.170 mm)	BS 3924
Adhesive	Conductive acrylic adhesive	-	-
Adhesive strength	4.0 N/cm	36 OZ/inch	ASTM D 1000
Tensile strength	40.0 N/cm	23 Lbs/inch	EN 60454
Elongation	10 %	10 %	EN 60454
Application temperature	-20°C to 155°C / -4°F to 311°F	311°F	-
Electrical resistance through adhesive***	0.01 – 0.05 Ω/Sq. inch	-	***
Flame retardancy	UL-510	-	-
Interliner	Siliconised paper	-	-

TCPN	Alias	Lining paper (Y/N)	Base Materials	Single-sided (S)/double-sided (D)	Tape Width (mm)	Length (M)
2508727-1	3030-S-0040-0170-6.35-20M	Y	Aluminum	S	6.35	20
2508728-1	3030-S-0040-0170-12.7-20M	Y	Aluminum	S	12.7	20
2508729-1	3030-S-0040-0170-19.05-20M	Y	Aluminum	S	19.05	20
2508730-1	3030-S-0040-0170-25.4-20M	Y	Aluminum	S	25.4	20
2508731-1	3030-S-0040-0170-50.8-20M	Y	Aluminum	S	50.8	20

*EN 60454 / **ASTM D-1000 / *** MILS STD 202G/F Method 307

Soft Copper Adhesive Tape with Conductive Thermosetting Polyacrylate Adhesive (3000 Series)

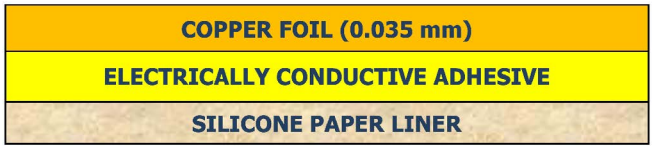
DESCRIPTION

Has a wide range of applications in the suppression of domestic appliances and electronic equipment to eliminate electrical interference.

APPLICATIONS

- Electrical conducting tape, solderable as heating element.
- EMI/RFI shielding for transformers, cables, cabinets, motors and components.

CONSTRUCTION



TECHNICAL DATA	EN VALUE*	ASTM VALUE**	TEST METHOD
Supporting base	Soft copper foil	-	-
Base thickness	0.035 mm	1.40 mils (0.035 mm)	BS 3924
Total thickness	0.060 mm	2.4 mils (0.060 mm)	BS 3924
Adhesive	Electrically conductive synthetic resin -thermosetting	-	-
Adhesive strength	4.5 N/cm	41.0 OZ/inch	ASTM D 1000
Tensile strength	40.0 N/cm	23 Lbs/inch	EN 60454
Recommended curing cycle	1 hour at 150°C/302°F or 2 hour at 130°C/266°F	-	-
Electrical resistance through adhesive***:	0.01 – 0.05 Ω/Sq. inch***	-	-
Application temperature	-20°C/-4°F to +150°C/+302°F	-	-
Colour	Copper	-	-
Interliner	Single sided siliconised paper	-	-

TCPN	Alias	Lining paper (Y/N)	Base Materials	Single-sided (S)/ double-sided (D)	Tape Width (mm)	Length (M)
2508732-1	3000-S-0035-0060-6.35-20M	Y	Copper	S	6.35	20
2508733-1	3000-S-0035-0060-12.7-20M	Y	Copper	S	12.7	20
2508734-1	3000-S-0035-0060-19.05-20M	Y	Copper	S	19.05	20
2508735-1	3000-S-0035-0060-25.4-20M	Y	Copper	S	25.4	20
2508736-1	3000-S-0035-0060-50.8-20M	Y	Copper	S	50.8	20

*EN 60454 / **ASTM D-1000 / *** MILS STD 202G/F Method 307

Double-Sided Copper Foil Shielding Tape with Electrically Conductive Adhesive (3000-D Series)

DESCRIPTION

Based on a soft copper foil which is coated on both sides with a high performance electrically conductive acrylic adhesive and protected with silicone paper liners.

APPLICATIONS

- EMI/RFI shielding
- Bonding of conductive surfaces
- Electrical grounding.

CONSTRUCTION

TECHNICAL DATA	EN VALUE*	ASTM VALUE**	TEST METHOD
Supporting base	Copper foil	-	-
Base thickness	0.035 mm	1.40 mils (0.035 mm)	BS 3924
Total thickness	0.110 mm	4.3 mils (0.110 mm)	BS 3924
Adhesive	Electrically conductive synthetic resin -thermosetting	-	-
Adhesive strength	4.5 N/cm	41.0 OZ/inch	ASTM D 1000
Tensile strength	40.0 N/cm	22.00 Lbs/inch	EN 60454
Elongation	5.0 %	5.0 %	EN 60454
Electrical resistance through adhesive***	0.01 – 0.05 Ω/Sq. inch***	-	-
Application temperature	-20°C to 150°C / -4°F to 302°F	311°F	-
Colour	Copper	-	-
Interliner	Siliconised paper	-	-

TCPN	Alias	Lining paper (Y/N)	Base Materials	Single-sided (S)/ double-sided (D)	Tape Width (mm)	Length (M)
2508737-1	3000-D-0035-0085-6.35-20M	Y	Copper	D	6.35	20
2508738-1	3000-D-0035-0085-12.7-20M	Y	Copper	D	12.7	20
2508739-1	3000-D-0035-0085-19.05-20M	Y	Copper	D	19.05	20
2508740-1	3000-D-0035-0085-25.4-20M	Y	Copper	D	25.4	20
2508741-1	3000-D-0035-0085-50.8-20M	Y	Copper	D	50.8	20

*EN 60454 / **ASTM D-1000 / *** MILS STD 202G/F Method 307

Self-Adhesive Solderable Conducting Tape Based on Embossed Copper Foil & Supplied on a Removable Liner (3010 Series)

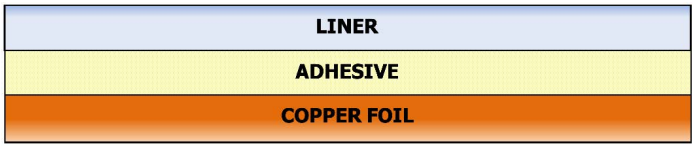
DESCRIPTION

Based on an embossed soft copper foil which is coated with a high performance electrically conductive acrylic adhesive. Supplied on a paper interliner.

APPLICATIONS

- Electrical conducting tape
- Solderable - with low contact resistance
- EMI/RFI shielding for motors, cables, cabinets & components

CONSTRUCTION



PHYSICAL PROPERTIES	EN VALUE*	ASTM VALUE**	TEST METHOD
Supporting base	Embossed soft copper foil	-	-
Base thickness (Before embossing)	0.035 mm	1.40 mils (0.035 mm)	BS 3924
Total thickness (After embossing)	0.075 mm	3.00 mils (0.075 mm)	BS 3924
Adhesive	Conductive acrylic adhesive	-	-
Adhesive strength	4.5 N/cm	41.0 OZ/inch	ASTM D 1000
Tensile strength	40.0 N/cm	22 Lbs/inch	EN 60454
Adhesive coating	Single faced	-	-
Electrical resistance through adhesive***	0.01 – 0.05 Ω/Sq. inch***	-	-
Application Temperature	-20°C to 150°C / -4°F to 302°F	311°F	-
Colour	Copper	-	-
Interliner	Paper interliner	-	-

TCPN	Alias	Lining paper (Y/N)	Base Materials	Single-sided (S)/double-sided (D)	Tape Width (mm)	Length (M)
2508742-1	3010-S-0035-0075-6.35-20M	Y	Copper	S	6.35	20
2508743-1	3010-S-0035-0075-12.7-20M	Y	Copper	S	12.7	20
2508744-1	3010-S-0035-0075-19.05-20M	Y	Copper	S	19.05	20
2508745-1	3010-S-0035-0075-25.4-20M	Y	Copper	S	25.4	20
2508746-1	3010-S-0035-0075-50.8-20M	Y	Copper	S	50.8	20

*EN 60454 / **ASTM D-1000 / *** MILS STD 202G/F Method 307

Tin/Silver Clad Copper Shielding Tape with Electrically Conductive Adhesive (3050 Series)

DESCRIPTION

Based on a special grade of tin/silver clad copper foil which is coated on one side with high performance electrically conductive acrylic adhesive.

Completely moisture resistant. The electrically conductive adhesive ensures secure shielding continuity. The tin/silver layers also provide improved solder ability and corrosion resistance. Supplied on a release paper interliner.

APPLICATIONS

- EMI/RFI shielding / Electrical grounding.
- Static charge draining / Cable and connector shielding.

PHYSICAL PROPERTIES	EN VALUE*	ASTM VALUE**	TEST METHOD
Supporting base	Tin-silver alloy clad copper foil	-	-
Base thickness	0.035 mm	1.4 mils (0.035 mm)	BS 3924
Total thickness	0.060 mm	2.4 mils (0.060 mm)	-
Adhesive	Synthetic resin, conductive (acrylic)	-	-
Adhesive strength	4.5 N/cm	41.0 OZ/inch	-
Tensile strength	40.0 N/cm	22 Lbs/inch	-
Elongation	5.0 %	5.0 %	-
Electrical resistance through adhesive	0.01 – 0.05 Ω/Sq. inch***	-	-
Application temperature	-20°C to 150°C / -4°F to 302°F	311°F	-
Colour	Silver	-	-
Interliner	Release paper	-	-

3050 series has been produced from a tin / silver alloy clad copper foil which has been coated with an electrically conductive acrylic adhesive layer and is protected with a silicone coated paper liner. To achieve the desired level of the electrical conductivity, the acrylic adhesive has been filled with specifically sized silver coated nickel particles. We can hereby advise you that each of the individual components / layers within the overall product construction of the 3050 series is in FULL COMPLIANCE with all of the stipulations of the RoHS2 Directive (2011/65/EU).

TCPN	Alias	Lining paper (Y/N)	Base Materials	Single-sided (S)/double-sided (D)	Tape Width (mm)	Length (M)
2508747-1	3050-S-0035-0060-6.35-20M	Y	Tin-Silver Alloy Clad Copper	S	6.35	20
2508748-1	3050-S-0035-0060-12.7-20M	Y	Tin-Silver Alloy Clad Copper	S	12.7	20
2508749-1	3050-S-0035-0060-19.05-20M	Y	Tin-Silver Alloy Clad Copper	S	19.05	20
2508750-1	3050-S-0035-0060-25.4-20M	Y	Tin-Silver Alloy Clad Copper	S	25.4	20
2508751-1	3050-S-0035-0060-50.8-20M	Y	Tin-Silver Alloy Clad Copper	S	50.8	20

*EN 60454 / ** ASTM D-1000 / *** MILS STD 202G/F Method 307

Embossed Tin Clad Copper Shielding Tape with Electrically Conductive Adhesive. (3040 Series)

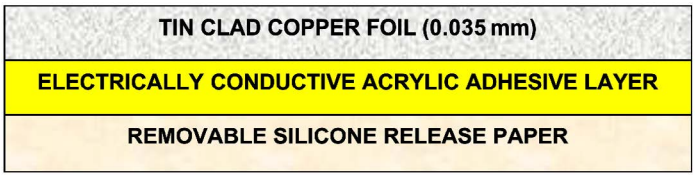
DESCRIPTION

Based on tin clad copper foil which is coated on one side with a high performance electrically conductive acrylic adhesive supplied with a removable Silicone paper interliner has an embossed pattern that provides direct contact through the adhesive. The tin layers provide improved solder ability and corrosion resistance.

APPLICATIONS

- EMI/RFI shielding / Electrical grounding
- Static charge draining / Cable and connector shielding

CONSTRUCTION



TECHNICAL DATA	EN VALUE*	ASTM VALUE**	TEST METHOD
Supporting base	Tin clad copper foil	-	-
Base thickness (Before Embossing)	0.035 mm	1.40 mils (0.035 mm)	BS 3924
Total thickness (After Embossing)	0.085 mm	3.40 mils (0.085 mm)	BS 3924
Adhesive	Electrically conductive synthetic resin -thermosetting	-	-
Adhesive strength	4.50 N/cm	41.0 OZ/inch	ASTM D 1000
Tensile strength	30.00 N/cm	16.20 Lbs/inch	EN 60454
Elongation	5.0 %	5.0 %	EN 60454
Electrical resistance through adhesive***	0.01 – 0.05 Ω/Sq. inch***	-	-
Application temperature	-20°C to 150°C / -4°F to 302°F	311°F	-
Colour	Silver	-	-

TCPN	Alias	Lining paper (Y/N)	Base Materials	Single-sided (S)/double-sided (D)	Tape Width (mm)	Length (M)
2508752-1	3040-S-0035-0085-6.35-20M	Y	Tin Clad Copper	S	6.35	20
2508753-1	3040-S-0035-0085-12.7-20M	Y	Tin Clad Copper	S	12.7	20
2508754-1	3040-S-0035-0085-19.05-20M	Y	Tin Clad Copper	S	19.05	20
2508755-1	3040-S-0035-0085-25.4-20M	Y	Tin Clad Copper	S	25.4	20
2508756-1	3040-S-0035-0085-50.8-20M	Y	Tin Clad Copper	S	50.8	20

EN 60454 / **ASTM D-1000 / *** MILS STD 202G/F Method 307

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Notes

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

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