

Conductive Tapes 3200

At any width, with or without conductive adhesive



Conductive Tapes 3200

A large series of tapes, which are electrically conductive. Ideal for earthing, conductance and EMI shielding.

Metal Tape with conductive self-adhesive

Electrically conductive tapes can be cut to any width from 3 mm wide and can be delivered from stock. A width of 25 mm is used most commonly. Standard roll length 16.5 meters.

Applications

- Electrical connection between surfaces (sheets / foils)
- Die-cuts
- Mounting transparent foils, windows
- Shielding in housings
- Cable shielding
- Temporary shielding during tests (see page 36)
- Antistatic floor

Shielding effectiveness

Many factors determine the true effectiveness of a shielding tape when applied, including type and thickness of foil, adhesive type, closeness of contact, smoothness of application surface, strength and frequency of the EMI signal, etc. Still, an attenuation value can be determined using standard tests and fixtures.

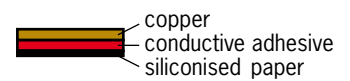
For tape, typical shielding effectiveness (far field) is in the range of 60dB to 80dB (10 KHz to 20 GHz). For more specifications see table.

We can slice tapes in any width



3201 Copper tape with conductive adhesive

A soft metal foil with a highly conductive self-adhesive on one side, with a release liner.



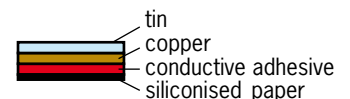
- Conductive acrylic adhesive
- Supplied with a removable liner for easy handling and die-cutting

The tape is standard available in:

- 0,035 mm (part no. 3201)
- 0,12 mm (part no. 3212)
- 0,18 mm (part no. 3218)
- Other on request

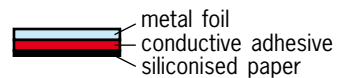
3202 Tinned copper tape

Like tape 3201 with added tin layer for corrosion protection and improved solderability.



3203 Aluminium tape

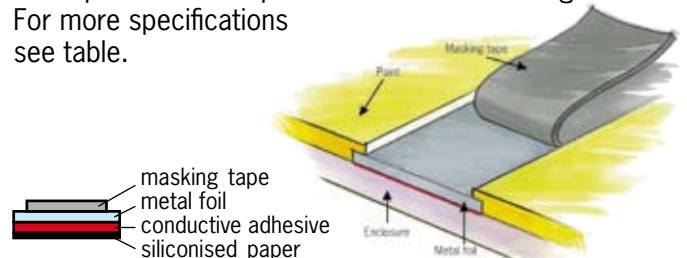
Developed especially for aluminium housings and frames to prevent galvanic corrosion.



3204 Contact Surface Tape

A metal tape with a highly conductive self-adhesive on one side and masking tape on the other side.

This contact surface tape is used to improve the corrosion resistance of construction metals (like untreated steel plates), or to improve the galvanic compatibility when 2 metal parts are connected with a gasket. After the parts have been coated, the paint overlaps the metal tape to increase the bonding. For more specifications see table.



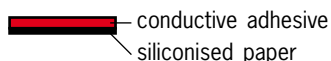
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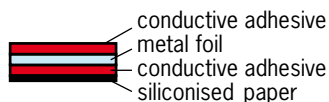
3205 Mounting tape

A double-sided self-adhesive transfer tape for mounting purposes. This system can be applied much faster than a conductive glue and can be applied very accurately. No time required for curing (pressure sensitive version). For lower resistance and/or to fill gaps with a rough surface we recommend Shieldokit electrical conductive 2 components adhesive (see Conductive Glue page 42). For more specifications see table.



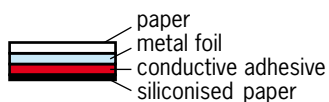
3206 Die-cut mounting tape/ Sandwich copper tape

A soft metal foil, laminated on 2 sides with a conductive self-adhesive. This is available in sheets and rolls. For more specifications see table.



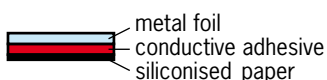
3207 Copper tape with paper insulation

Same as 3201 but with a paper layer added to insulate the top layer of the copper tape. Thickness of the copper is 0.035 mm with a 0.5 mm thick paper insulation layer. Available in 1500 mm width.



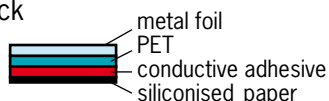
3208 Mu-ferro tape

Metal tape used for shielding against low magnetic frequencies.



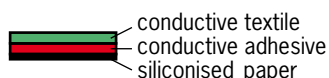
4703 Amucor tape

This is a 11 micron thick Amucor tape (Aluminium type), reinforced with 23 micron thick polyester and an acrylic adhesive on the back.



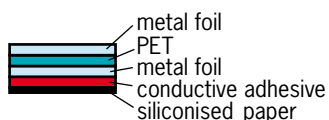
4713 Conductive textile tape

Nylon ripstop, extremely strong + flexible. Metalized with Cu/Ni with conductive adhesive on the back (see also 3205).



4718 Amucor with PET in the middle

Sandwich tape with 2 layers of 11 micron thick aluminium with 23 micron polyester inside.



Technical specification and part numbers

part no. (Conductive adhesive)	3201	3202	3203	3204	3205	3206
part no. (Standard adhesive)	3301	3302	3303	3304	-	3306
construction						
foil material	soft copper	soft copper	aluminium	soft copper	-	soft copper
surface	shiny	tinned	shiny	shiny	-	-
foil thickness	0.035 mm	0.035 mm	0.040 mm	0.035 mm	-	0.035 mm
total thickness	0.060 mm	0.060 mm	0.065 mm	0.060 mm	0.050 mm	0.085 mm
adhesive	synthetic conductive resin	synthetic conductive resin	synthetic conductive resin	synthetic conductive resin	synthetic conductive resin	synthetic conductive resin
adhesive performance	4.5 N/cm	4.5 N/cm	4.5 N/cm	4.5 N/cm	4.5 N/cm	4.5 N/cm
tensile strength	55 N/cm	40 N/cm	25 N/cm	55 N/cm	-	55 N/cm
temperature resistance	155°C	155°C	155°C	155°C	155°C	155°C
el. resistance through adhesive	0.003 Ohm	0.003 Ohm	0.003 Ohm	0.003 Ohm	0.003 Ohm	0.003 Ohm
standard roll widths (mm)	10, 25, 50, 100	10, 25, 50, 100	10, 25, 50, 100	10, 25, 50, 100	10, 25, 50, 100	10, 25, 50, 100
roll lengths	16.5 m	16.5 m	16.5 m	16.5 m	16.5 m	16.5 m

Other roll lengths on request

part nr. (Conductive adhesive)	3207	3208	4703	4713	4718
part nr. (Standard adhesive)	3307	3305	4702	4712	4717
construction					
foil material	soft copper with paper	Mu-ferro	Amucor	Conductive textile	Amucor and PET
surface	bright	tinned	bright	textile	bright
foil thickness	0.035 mm	0.1 mm	0.023 mm	0.06 mm	0.35 mm
total thickness	0.060 mm	0.125 mm	0.048 mm	0.0825 mm	0.3725 mm
adhesive	synthetic conductive resin	synthetic conductive resin	synthetic conductive resin	synthetic conductive resin	synthetic conductive resin
adhesive performance	4.5 N/cm	4.5 N/cm	4.5 N/cm	4.5 N/cm	4.5 N/cm
tensile strength	55 N/cm	-	-	-	-
temperature resistance	-	-	-	-	-
el. resistance through adhesive	0.003 Ohm	0.003 Ohm	0.003 Ohm	0.003 Ohm	0.003 Ohm
standard roll widths (mm)	10, 25, 50, 100	10, 25, 50, 100	10, 25, 50, 100	10, 25, 50, 100	10, 25, 50, 100
roll lengths	16.5 m	16.5 m	16.5 m	16.5 m	16.5 m

Other roll lengths on request

For larger areas it is more economical to use foil (see page 36) in combination with these tapes.

**Ordering
information**

Example

Copper tape with conductive adhesive (3201) 25 mm wide and 16.5 meters long.
Order code: **3201-25-16.5**

Part number	Width (mm)	Length (m)
3201	25	16.5