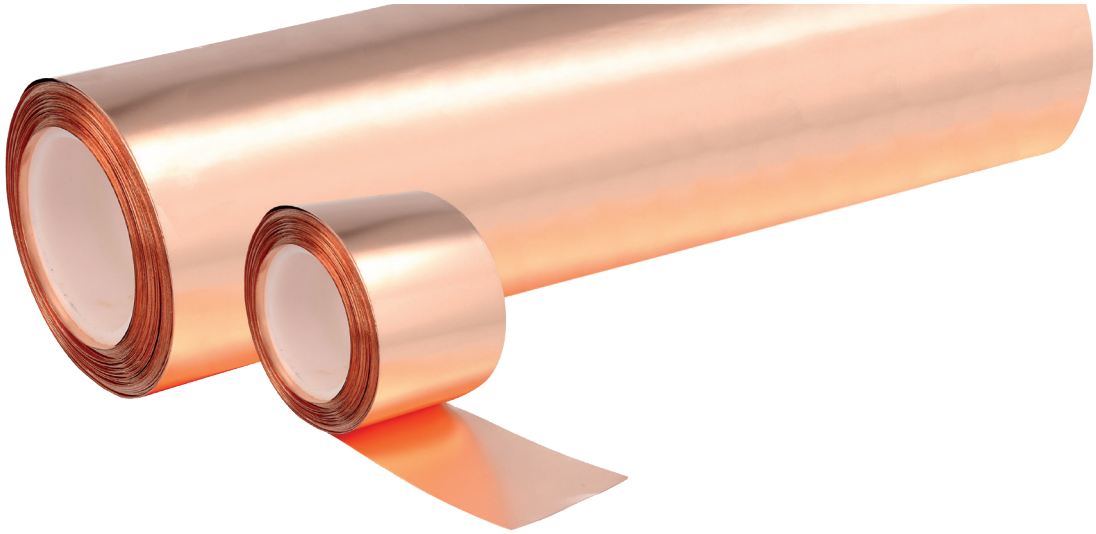
MU-COPPER TAPE 3200

A large series of electrically conductive tapes for EMI/RFI shielding, ideal for grounding, conductance and EMI/RFI shielding of housings/Faraday cages



Many EMI problems can be solved easily with Mu-copper foil or tape. Mu-copper tape is available with or without (conductive) self-adhesive and an optional insulation layer. Mu-copper tape can be cut to any width starting at 3mm and can be delivered from stock. The most commonly used width is 25mm; standard roll length is 16.5 meters.

When large surfaces are to be shielded, it is recommended to cover most of the surface with Mu-copper foil, possibly in combination with tape with a conductive self-adhesive. This solution is much cheaper than covering the entire surface with tape strips.

Mu-copper tape can also be delivered as die-cut, according to your drawing, on strips or in pieces (as stickers), with optional self-adhesive. Almost every shape and size is possible.

TECHNICAL SPECIFICATION

Foil material	Soft copper
Surface	Shiny
Foil thickness	0.035 mm
Total thickness	0.060 mm
Adhesive	Synthetic conductive resin
Adhesive performance	4.5 N/cm
Tensile strength	55 N/cm
Temperature resistance	155 °C
El. resistance through adhesive	0.003 Ohms
Roll length	Min. 16.5m (standard)
Standard roll width (mm)	10, 25, 50, 100

*Other roll widths/lengths on request

APPLICATIONS

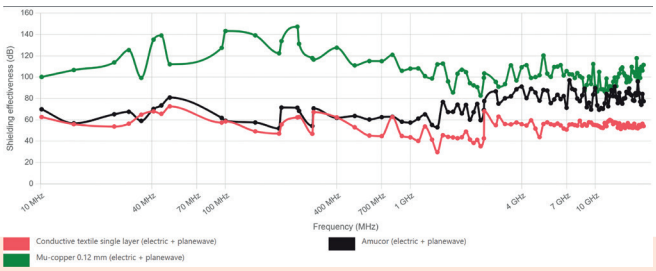
- EMI shielding of plastic enclosure parts
- EMI shielding tape/gasket
- Shielding of all non-conductive materials
- Ground plane
- Anti-static floors (ESD floors)
- Electrical connection between surfaces
- Shielding in housings and Faraday cages
- Temporary shielding during tests
- Mounting transparent foils and windows for EMI/RFI shielding
- Cable shielding (tape wrapped around cable)
- Temporary shielding during emissions and immunity tests

SHIELDING EFFECTIVENESS

There are many factors that influence the actual effectiveness of an EMI/RFI shielding tape after it has been applied, such as the type and thickness of foil, type of adhesive, closeness of contact, smoothness of application surface, strength and frequency of the EMI/RFI signal, etc. Still, attenuation values can be determined using standard tests and fixtures.

For EMI/RFI shielding tape, typical shielding effectiveness (far field) is in the range of 60dB to 80dB (10 kHz to 20 GHz). For more specifications see table and graph below.

3200 - MU-COPPER TAPE VS OTHER TAPES

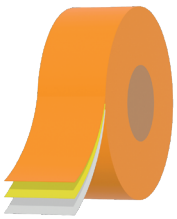


» MU-COPPER TAPE 3200

MU-COPPER TAPE WITH CONDUCTIVE ADHESIVE

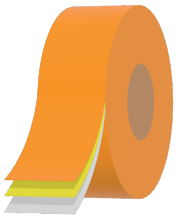
3201
Max. width 650 mm
Thickness 0.042 mm ±0.02

- Copper (0.035)
- Conductive adhesive
- Siliconised paper



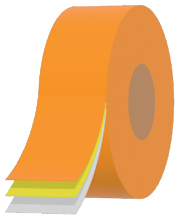
3212
Max. width 1000 mm
Thickness 0.19 mm ±0.02

- Copper (0.12)
- Conductive adhesive
- Siliconised paper



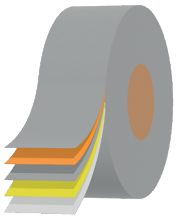
3218
Max. width 1000 mm
Thickness 0.25 mm ±0.02

- Copper (0.18 mm)
- Conductive adhesive
- Siliconised paper



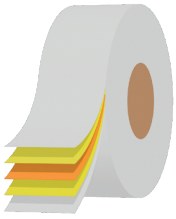
3202
Max. width 330 mm
Thickness 0.042 mm ±0.02

- Tin
- Copper (0.035 mm)
- Tin
- Conductive adhesive
- Siliconised paper



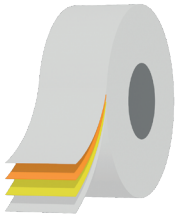
3206
Max. width 1100 mm
Thickness 0.047 mm ±0.02

- Siliconised paper
- Conductive adhesive
- Copper (0.035 mm)
- Conductive adhesive
- Siliconised paper



3207
Max. width 1500 mm
Thickness 0.050 mm ±0.02

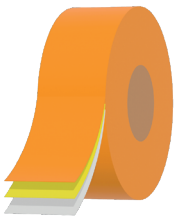
- Paper
- Copper (0.035 mm)
- Conductive adhesive
- Siliconised paper



MU-COPPER TAPE WITH STANDARD ADHESIVE

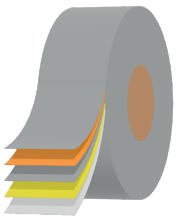
3301
Max. width 650 mm
Thickness 0.040 mm ±0.02

- Copper (0.035)
- Standard adhesive
- Siliconised paper



3302
Max. width 330 mm
Thickness 0.040 mm ±0.02

- Tin
- Copper (0.035 mm)
- Tin
- Standard adhesive
- Siliconised paper



ORDER EXAMPLE

Part number		Width (mm)		Length (meters)
	–		–	
Please choose a part number out of the table		Specify the width in mm. Standard roll widths 25, 50, 100. Other width on request		Specify the length in meters. Standard roll length 16.5 meter.

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