

MU-COPPER FOIL 3281

Mu-copper foil and sheets for EMI shielding



Many EMI problems can be solved easily by the use of conductive foils and conductive sheets. Some of the most commonly used materials are Mu-copper foil, reinforced Amucor foil and highly conductive textile.

All of these materials can be produced with or without (conductive) self-adhesive and an optional insulation layer.

ELECTRICAL INSULATION LAYER SPECIFICATIONS*

If you want us to provide an insulating layer on the Mu-copper then there are the following two options.

Color	White	Black
Material	Thermoplastic polyester	Thermoplastic polyester
Thickness	0.15 mm	0.22 mm
Flammability	UL94 VTM-0	UL94V-0

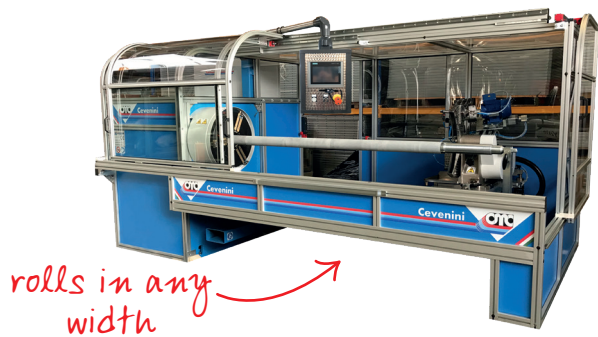
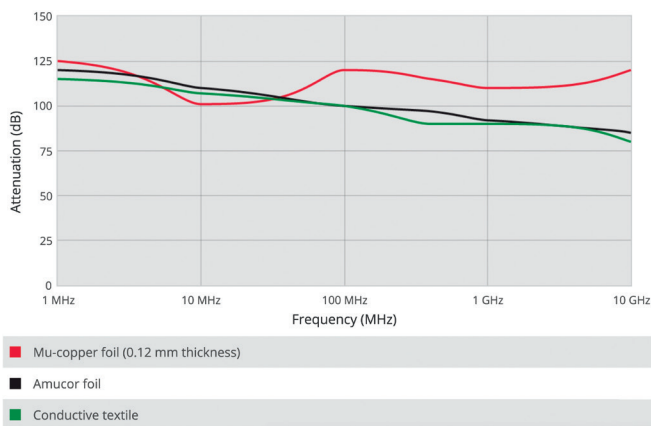
APPLICATIONS

- Shielding plastic enclosure parts
- Shielding any non-conductive materials
- Ground plane
- Anti-static floor
- Electrical connection between surfaces (sheets / foils)
- Die-cuts
- Shielding in housings
- Shielding cables
- Temporary shielding during tests

OPTIONS

- Flame-retardant version
- With (conductive) self-adhesive backing
- With insulation layer
- Cut into the desired shape (possible via CAD drawing)

SHIELDING PERFORMANCE OF TAPES AND FOILS





MU-COPPER FOIL (3281, 3282, 3283)

Mu-copper foil has superb shielding performance (also at low frequencies), can be soldered, and can easily be folded into the desired shape. Mu-copper foil is used to make small EMI shields like PCB-shielding cans, but also to EMI-shield entire existing rooms (Faraday cages, screen rooms, shielded boxes etc.).

Part numbers

- 3281 : Mu-copper foil (0.035 mm thick)
- 3282 : Mu-copper foil (0.12 mm thick)
- 3283 : Mu-copper foil (0.18 mm thick)



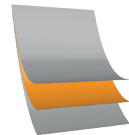
Mu-copper foil

TINNED MU-COPPER FOIL (3271)

Similar to Tape 3201, but with a layer of tin added for protection against corrosion and better solderability.

Part numbers

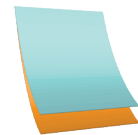
- 3271 : Tinned Mu-copper foil (0.035 mm thick)
- 3272 : Tinned Mu-copper foil (0.12 mm thick)
- 3273 : Tinned Mu-copper foil (0.18 mm thick)



Tin
Mu-copper foil
Tin

MU-COPPER FOIL WITH PAPER INSULATION (3287)

Mu-copper foil is similar to Part number 3281, but with a paper layer added to isolate the top layer of the foil.



Paper insulation
Mu-copper foil

TECHNICAL SPECIFICATION AND PART NUMBERS

	Thickness (mm)	Max. width (mm)	Part number	Part number with white insulation layer added*	Part number with black insulation layer*
Mu-copper	0,035	650	3281	3401	3451
Mu-copper	0.12	1000	3282	3412	3452
Mu-copper	0.18	1000	3283	3418	3458
Mu-copper with paper insulation	0.035	600	3287	-	-
Tinned Mu-copper	0.035	330	3271	-	-
Tinned Mu-copper	0.12	300	3272	-	-
Tinned Mu-copper	0.18	300	3273	-	-

Films or tapes with different specifications are available on request. Please contact us for more information

* For more information on the insulating layer. Note that by the thickness in the above table, the thickness of the insulation layer still needs to be added.

