

3208 - Mu-ferro tape and foil

Mu-ferro foil/tape is a thin foil with a thickness of 0,023 mm. It combines excellent soft magnetic properties with an unusual mechanical hardness and flexibility. This means that very tight bendings can be realised with only very slight impairment of permeability. The fine strip thickness and comparatively very low electric conductivity permit effective shielding even of higher-frequency fields.

Applications

Its main applications are flexible shielded cables with small diameters and rapid and flexible solutions to problems at low field strengths. Other applications:

- Magnet heads
- Magnetic field sensors
- Chokes
- Transformers
- Electronic article surveillance tags

Benefits

- Very high permeability
- Low losses

Characteristics

Mu-ferro foil for shielding of low-frequency magnetic fields. Due to the low electrical resistance even for shield- ing low-frequency electric fields (LF) and high-frequency fields (HF).

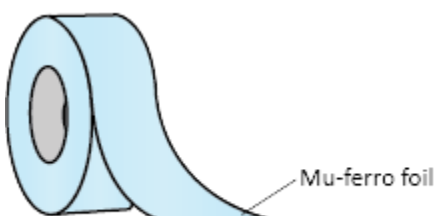
Properties

- Easy to bent
- Easy to fold
- Can be cut with scissors
- Good corrosion resistance in a normal environment
- Above mentioned can be done without big attenuation loss

Grounding

Due to the highly conductive surface this material can be contacted and grounded easy to shield low frequency (LF) electric fields. For professional grounding please contact us.

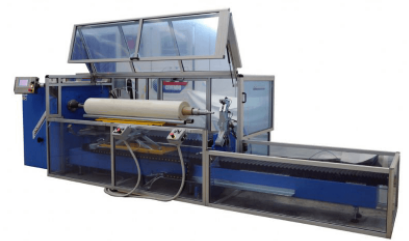
Mu-ferro foil(3284)



Technical drawing

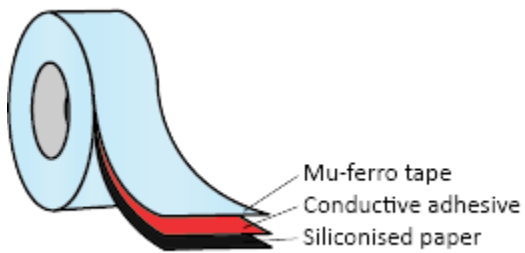


3208 Mu-ferro foil and tape for low-frequency magnetic shielding



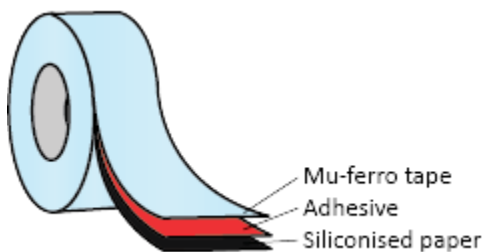
We can slice all our EMI/RFI shielding tapes in any specific width

3208 - Mu-ferro tape and foil



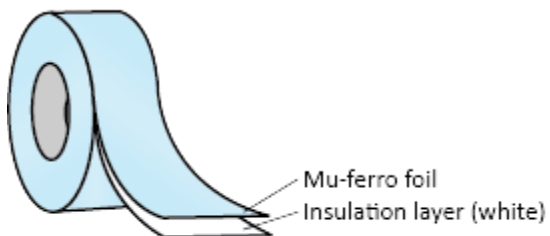
Technical drawing

Mu-ferro tape with standard adhesive(3305)



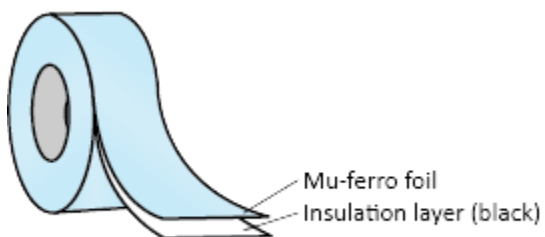
Technical drawing

Mu-ferro foil with 0.15 mm thick white insulation layer(3408)



Technical drawing

Mu-ferro foil with 0.22 mm thick black insulation layer (3468)



Technical drawing






Technical data

3208 - Mu-ferro tape and foil

Width	Can be supplied in any width from 50 mm
Length	By the meter / up to 100 m roll
Attenuation LF magnetic field	14 dB = 80 % (for more shielding use multiple layers); Attenuation HF: 100 dB at 1 GHz
Permeability	$\mu = 10000$; max. = 25000
Saturation induction B_s	0.58 T
Density	7.7 g/cm ³
Curie temperature C	200
Crystallisation-temperature T_x C	530
Specific electrical resistance	1.4 m

*These values are measured under laboratory conditions.
In your situation results may differ, please read our Guarantee.*

Standard part numbers

Specification	Part number				
	3284	3208	3305	3408	3468
Construction					
Product description	Mu-ferro foil	Mu-ferro tape with conductive adhesive	Mu-ferro tape with standard adhesive	Mu-ferro foil with 0.15 mm thick white insulation layer	Mu-ferro foil with 0.22 mm thick black insulation layer
Foil material	Mu-ferro	Mu-ferro	Mu-ferro	Mu-ferro	Mu-ferro
Surface	Silver colour	Silver colour	Silver colour	Silver colour	Silver colour
Foil thickness	0.023 mm	0.023mm	0.023 mm	0.023 mm	0.023 mm
Total thickness	0.023 mm	0.048 mm	0.048 mm	0.175 mm	0.243 mm
Adhesive	No adhesive	Synthetic conductive resin	Synthetic conductive resin	No adhesive	No adhesive
Adhesive performance	-	4.5 N/cm	4.5 N/cm	-	-
Tensile strength	-	-	-	-	-
Temperature resistance	-	-	-	-	-
El. resistance through adhesive	-	0.003 Ohm	0.003 Ohm	-	-
Standard roll widths (mm)*	max. 50 mm	max. 50 mm	max. 50 mm	max. 50 mm	max. 50 mm
Roll lengths*	max. 100 meter	max. 100 meter	max. 100 meter	max. 100 meter	max. 100 meter

*These values are measured under laboratory conditions.
In your situation results may differ, please read our Guarantee.*

*Other roll width / length on request

Part number	Width (mm)	Length (m)
Select an option:	<input type="text"/>	<input type="text"/>
3284 : Mu-ferro foil	Specify the width of the foil or the tape in mm	Length of the tape in meters
3408 : Mu-ferro foil with 0.15 mm thick white insulation layer		
3468 : Mu-ferro foil with 0.22 mm thick black insulation layer		
3208 : Mu-ferro tape with conductive adhesive		
3305 : Mu-ferro tape with standard adhesive		