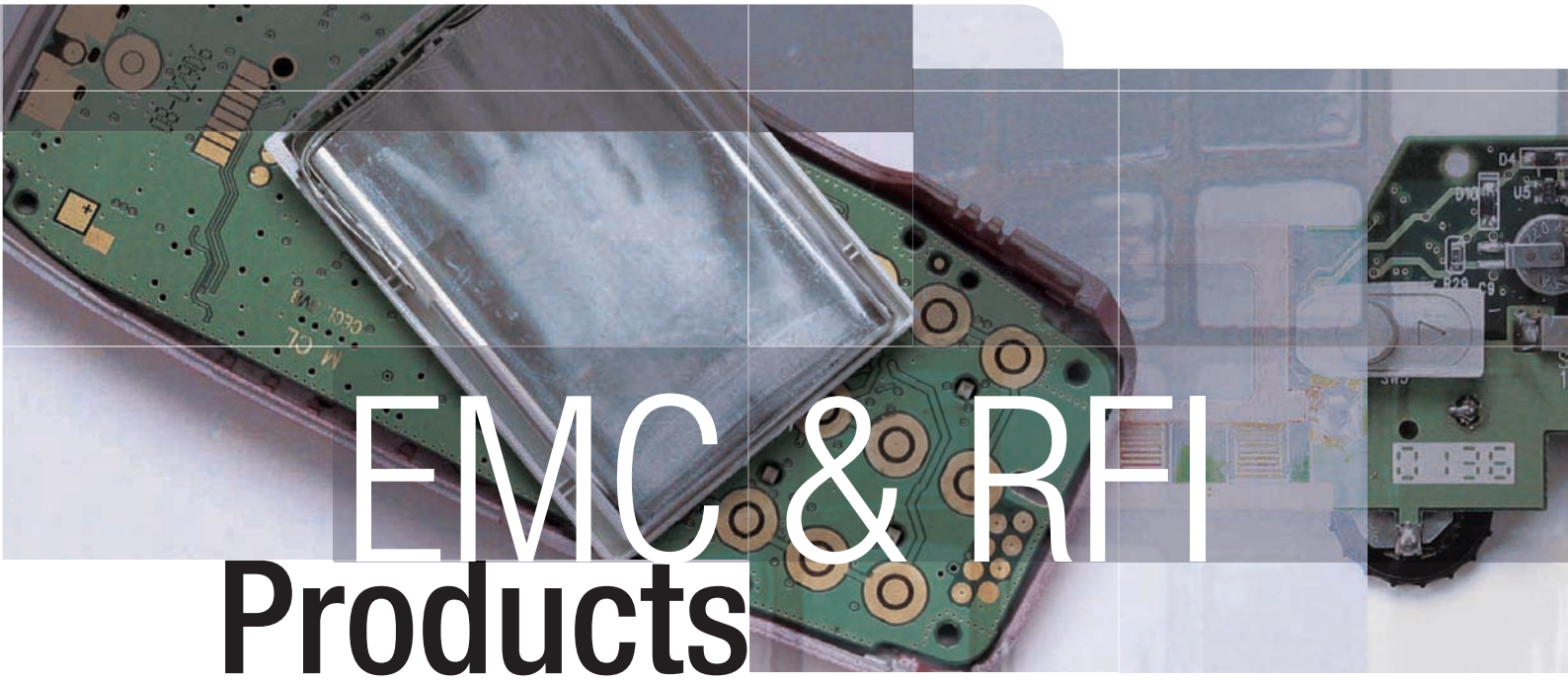


EMC & RFI Products

For more than 40 years 3M Company has been one of the foremost sources of effective electromagnetic compatible (EMC) solutions.

Many of the world's leading electronic and electrical manufacturers look to 3M for its exceptional technical and manufacturing experience in adhesive tape technology.

Today's advanced technology makes EMC solutions especially important for meeting electromagnetic interference (EMI) and radio frequency interference (RFI) specifications, providing electrostatic discharge (ESD) protection, and complying with product certification requirements around the world.

3M not only offers products of exceptional quality, it provides the peace of mind that comes from knowing that products are protected and will meet critical specifications.

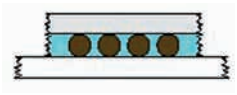


Shielding Tapes - Aluminium

3M™ EMI Shielding Tapes are designed for applications requiring reliable point-to-point electrical contact, particularly EMI/RFI shielding, grounding and static charge draining. The tapes have a multitude of uses in electronic design and test laboratories for prototyping, design and troubleshooting.



1170 Aluminium foil backing



Aluminium foil
Acrylic adhesive with conductive particles
Removable liner

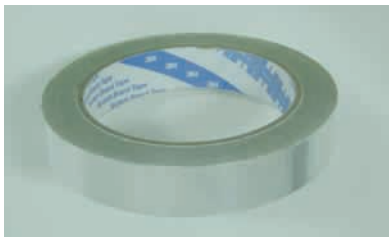
3M™ 1170 Tape (2 mils)
Aluminium Foil with Acrylic Conductive Adhesive

1170 Tape consists of a 1-ounce deadsoft aluminium foil backing with a unique electrically conductive pressure-sensitive acrylic adhesive and is supplied on a removable liner for easy handling and die cutting

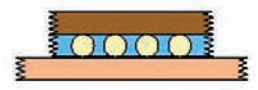
1170 Tape is typically used for applications requiring excellent electrical conductivity from the application substrate through the adhesive to the foil backing. Common uses include grounding and EMI shielding in equipment, components, shielded rooms, etc.

Size:- 584mm x 16.5m*

Backing	Adhesive	Total Thickness	Foil Thickness	Foil+ Adhesive** Resistance	Breaking strength	Adhesion to steel	UL Recognition /Approvals
Flat Aluminium	Acrylic Conductive	3.2 mils (0.813mm)	2.0 mils (0.05mm)	0.01 ohmes	20 Lb/in	35 oz/in	UL510



Dispersed particle type
(1170 Aluminium foil, 1181 copper foil, FE-20CX iron foil, AL 25BT aluminium foil)



Metal foil
Acrylic adhesive with metal particles
Removable liner

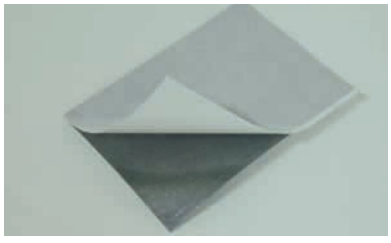
3M™ AL25BT Tape (1 mil)
Aluminium Foil with Conductive Adhesive

AL-25BT consists of a soft aluminium foil backing with a unique electrically conductive, pressure-sensitive acrylic adhesive and is supplied on a removable liner for easy handling and die cutting.

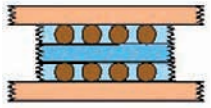
AL-25BT is typically used for applications requiring excellent electrical conductivity from the application substrate through the adhesive to the foil backing. Common uses include grounding and EMI shielding in equipment, components, shielded rooms, etc.

Size:- 500mm x 20m*

Backing	Adhesive	Total Thickness	Foil Thickness	Foil+ Adhesive** Resistance	Breaking strength	Adhesion to steel	UL Recognition /Approvals
Flat Aluminium	Acrylic Conductive	2.4 mils (0.061mm)	1.0 mils (0.025mm)	0.01 ohm/25mm2	20 Lb/in	3.4 N/cm	UL510



Double-sided conductive tapes
(AL-25DC) Aluminium foil)



Removable liner
Acrylic adhesive with metal particles
Aluminium foil

3M™ AL25DC Tape (1 mil)
Aluminium Foil Double Coated with Acrylic Conductive Adhesive

AL-25DC consists of a soft aluminium foil backing double coated with a unique electrically conductive pressure-sensitive acrylic adhesive and is supplied on a removable liner for easy handling and die cutting.

AL-25DC is typically used for applications requiring excellent electrical conductivity from the application substrate through the adhesive to the foil backing. Common uses include grounding and EMI shielding in equipment, components, shielded rooms, etc.

Size:- 500mm x 20m*

Backing	Adhesive	Total Thickness	Foil Thickness	Foil+ Adhesive** Resistance	Breaking strength	Adhesion to steel	UL Recognition /Approvals
Flat Aluminium	Acrylic Conductive	3.3 mils (0.084mm)	1.0 mils (0.025mm)	0.035 ohm/25mm2	-	3.4 N/cm	-

*Rolls are available in varying sizes via our network of approved slitting distributors

Shielding Tapes - Aluminium



3M™ AL36FR Tape (1.5 + 2.4 mils) - Aluminium Foil & Polyester Film with Acrylic Conductive Adhesive

AL-36FR consists of polyester film-laminated aluminium foil backing with a unique electrically conductive pressure-sensitive acrylic adhesive and is supplied on a removable liner for easy handling and die cutting. The tape is also UL recognised for flame retardancy per UL 510, Product Category OANZ2, File E166244

AL-36FR is typically used for applications requiring excellent electrical conductivity from the application substrate through the adhesive to the foil backing. Common uses include grounding and EMI shielding in equipment, components, shielded rooms, etc.

Size:- 500mm x 40m*

Backing	Adhesive	Total Thickness	Foil Thickness	Foil+ Adhesive** Resistance	Breaking strength	Adhesion to steel	UL Recognition /Approvals
Polyester+ Aluminium	Acrylic Conductive	2.4 mils (0.061mm)	1.5 mils (0.0381mm)	0.02 ohm/25mm^2	-	2.2 N/cm	UL510



AL-36NC Aluminium foil with insulation



Insulation film
Acrylic adhesive
Metal foil
Removable liner

3M™ AL36NC Tape (1.5 + 2.2mils) - Aluminium Foil & Polyester Film with Acrylic Conductive Adhesive

AL-36NC consists of polyester film-laminated aluminium foil backing and pressure-sensitive acrylic adhesive and is supplied on a removable liner for easy handling and die cutting.

AL-36NC is typically used for applications requiring excellent electrical conductivity from the application substrate through the adhesive to the foil backing. Common uses include grounding and EMI shielding in equipment, components, shielded rooms, etc.

Size:- 500mm x 50m*

Backing	Adhesive	Total Thickness	Foil Thickness	Foil+ Adhesive** Resistance	Breaking strength	Adhesion to steel	UL Recognition /Approvals
Polyester+ Aluminium	Acrylic Conductive	2.2 mils (0.055mm)	1.5 mils (0.0381mm)	0.02 ohm/25mm^2	-	2.2 N/cm	-



3M™ AL37BLK Tape (1.7 + 2.8 mils) - Aluminium Foil & Black Polyester Film with Acrylic Conductive Adhesive

AL-37BLK consists of black polyester film-laminated (matte finish) soft aluminium foil backing and a unique electrically conductive pressure-sensitive acrylic adhesive and is supplied on a removable liner for easy handling and die cutting. UL recognised for flame retardancy per UL 510, Product category OANZ2, File 59505.

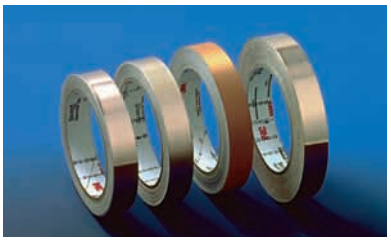
AL-37BLK is typically used for applications requiring excellent electrical conductivity from the application substrate through the adhesive to the foil backing. Common uses include grounding and EMI shielding in equipment, components, shielded rooms, etc.

Size:- 250mm x 20m*

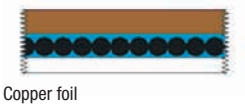
Backing Thickness	Adhesive Thickness	Total Adhesive**	Foil strength Resistance	Foil+ to steel	Breaking Recognition	Adhesion /Approvals	UL
Polyester + Aluminium	Acrylic Conductive	2.8 mils (0.071mm)	1.7 mils (0.432mm)	0.05 ohm/25mm^2	-	3.4 N/cm	UL510

*Rolls are available in varying sizes via our network of approved slitting distributors

Shielding Tapes - Copper



1181 Copper foil tape



Copper foil
Acrylic adhesive with conductive particles
Removable liner

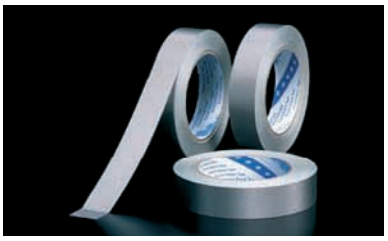
3M™ 1181 Tape (1.4 + 2.6 mils) - Copper Foil with Acrylic Conductive Adhesive

1181 Tape consists of a 1-ounce deadsoft copper foil backing and a unique electrically conductive pressure-sensitive acrylic adhesive and is supplied on a removable liner for easy handling and die cutting.

1181 Tape is typically used for applications requiring excellent electrical conductivity from the application substrate through the adhesive to the foil backing. Common uses include grounding and EMI shielding in equipment, components, shielded rooms, etc. The copper foil backing is solderable and resists oxidation and discoloration.

Size:- 584mm x 16.5m*

Backing	Adhesive	Total Thickness	Electrical Resistance	Breaking strength	Adhesion to steel	UL Recognition/ Approvals
Copper	Acrylic Conductive	2.6 mils (0.066mm)	0.005 ohm	25 Lb/in	35 oz/in	UL510



2191FR Nickel on copper-plated polyester cloth



Nickel on copper-coated fabric
Acrylic adhesive with conductive particles
Removable liner

3M™ 2191FR Metalised Cloth Tape (5.5 mils) - Nickel on Copper-Plated Polyester Ripstop Fabric with Acrylic Conductive Adhesive

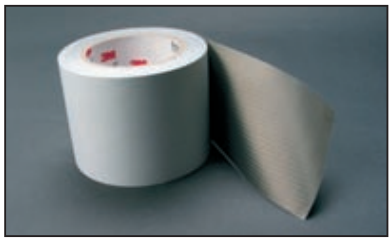
2191FR consists of a strong, flexible nickel on copper-plated polyester ripstop fabric backing and a unique electrically conductive pressure-sensitive acrylic adhesive and is supplied on a removable liner for easy handling and die cutting. UL recognised for flame retardancy per UL 510, Product category OANZ2, File 59505

2191FR can be used in many applications such as grounding and EMI shielding in equipment, components, shielded rooms etc.

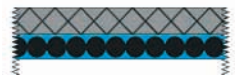
The unique metallised fabric backing offers the additional benefits of excellent flexibility and conformability, very light weight, and exceptional strength. The fabric backing also minimises the possibility of finger laceration.

Size:- 500mm x 20m*

Backing	Adhesive	Total Thickness	Electrical Resistance	Breaking strength	Adhesion to steel	UL Recognition/ Approvals
Nickel on Copper plated Polyester Ripstop Fabric	Acrylic Conductive	5.5 mils (0.140mm)	0.003 ohm 25mm^2	108 N/cm	2.1 N/cm	UL510



CN3190 Nickel on copper-plated polyester cloth



Nickel on Copper-Plated fabric
Acrylic adhesive with conductive particles
Removable liner

3M™ CN3190 Tape (4.3 mils) - Nickel on Copper-Plated Polyester Fabric with Acrylic Conductive Adhesive

Nickel on Copper-Plated Polyester Fabric Tape CN-3190 consists of anti-corrosion polyester rip-stop fabric and unique electrically conductive pressure-sensitive acrylic adhesive.

- Anti-corrosion treated Cu/Ni conductive fabric
- Conductive acrylic adhesive
- Supplied on a removable liner for easy handling and die cutting

CN-3190 fabric tape is used in applications typically served by metal foil shielding tapes such as grounding and EMI shielding equipment, components, shielded rooms, etc.

The unique metal-plated fabric backing offers the additional benefits of excellent flexibility and conformability, very light weight, and exceptional strength. The fabric backing also minimises the possibility of finger lacerations.

Size:- 1050mm x 50m*

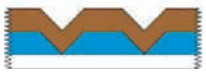
Backing	Adhesive	Total Thickness	Electrical Resistance	Breaking strength	Adhesion to steel	UL Recognition/ Approvals
Copper / Nickel coated conductive fabric	Acrylic Conductive	4.3 mils (0.11mm)	0.003 ohm	25Kg/ 25.4mm	992.25g/ 25.4mm	UL510

*Rolls are available in varying sizes via our network of approved slitting distributors

Shielding Tapes - Copper



Embossed type (2245 copper foil)



Embossed foil
Acrylic adhesive
Removable liner

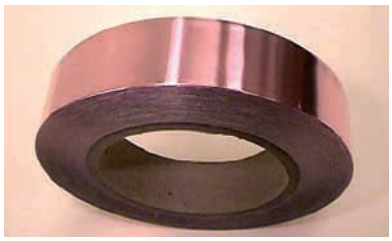
3M™ 2245 Tape (1.4 + 4.0 mils) - Embossed Copper Foil with Acrylic Conductive Adhesive

2245 Tape consists of an embossed copper foil backing and acrylic pressure-sensitive adhesive and is supplied on a removable liner for easy handling and die cutting. The tape is solderable whilst also resists oxidation and discoloration. UL recognised for flame retardancy per UL 510, Product category OANZ2, File 59505.

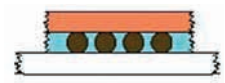
2245 Tape is typically used for applications requiring excellent electrical conductivity from the application substrate through the adhesive to the foil backing. Common uses include grounding and EMI shielding in equipment, components, shielded rooms, etc.

Size:- 500mm x 20m*

Backing	Adhesive	Total Thickness	Electrical Resistance	Breaking strength	Adhesion to steel	UL Recognition/ Approvals
Embossed Copper	Acrylic Conductive	4.0 mils (0.1mm)	0.01 ohm/25mm^2	-	3.4 N/cm	UL510



CU-35C Copper foil backing



Copper foil
Acrylic adhesive with conductive particles
Removable liner

3M™ CU-35C Tape (1.4 + 2.8 mils) - Copper Foil with Acrylic Conductive Adhesive

CU-35C Tape consists of a soft copper foil backing and a unique electrically conductive, pressure-sensitive acrylic adhesive and is supplied on a removable liner for easy handling and die cutting. The tape is solderable, whilst also resisting oxidation and discoloration. UL recognised for flame retardancy per UL 510, Product category OANZ2, File 59505

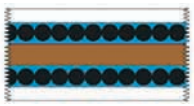
CU-35C Tape is typically used for applications requiring excellent electrical conductivity from the application substrate through the adhesive to the foil backing. Common uses include grounding and EMI shielding in equipment, components, shielded rooms, etc.

Size:- 650mm x 20m*

Backing	Adhesive	Total Thickness	Electrical Resistance	Breaking strength	Adhesion to steel	UL Recognition/ Approvals
Copper	Acrylic Conductive	2.8 mils (0.07mm)	0.005 ohm/25mm^2	-	35 N/cm	UL510



1182 Copper foil tape



Copper foil
Acrylic adhesive with conductive particles
Removable liner

*Rolls are available in varying sizes via our network of approved slitting distributors

3M™ 1182 Tape (1.4 + 3.5 mils) - Copper Foil Double Coated with Acrylic Conductive Adhesive

1182 Tape consists of a 1-ounce deadsoft copper foil backing that is coated on both sides with a unique electrically conductive pressure sensitive acrylic adhesive and is supplied on a removable liner for easy handling and die cutting.

1182 is typically used to bond two surfaces together, both electrically and physically. An example would be adhering a conductive gasket to a conductive surface as part of the EMI shielding solution for an electronic enclosure.

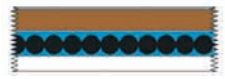
Size:- 584mm x 16.5m*

Backing	Adhesive	Total Thickness	Electrical Resistance	Breaking strength	Adhesion to steel	UL Recognition/ Approvals
Copper	Acrylic Conductive	3.5 mils (0.089mm)	0.01 ohms	25lb/in	35 oz/in	UL510

Shielding Tapes - Copper



1183 Tin-plated copper foil tape



Tin plating
Copper foil
Acrylic adhesive with conductive particles
Removable liner

3M™ 1183 Tape (1.4 + 2.6 mils) - Tin Plated Copper Foil with Acrylic Conductive Adhesive

1183 Tape consists of a 1-ounce deadsoft tin-plated copper foil backing and a unique electrically conductive pressure-sensitive acrylic adhesive and is supplied on a removable liner for easy handling and die cutting. 1183 Tape is typically used for applications requiring excellent electrical conductivity from the application substrate through the adhesive to the foil backing. Common uses include grounding and EMI shielding in equipment, components, shielded rooms, etc. The tin plating facilitates soldering to the backing and resists oxidation and corrosion.

Size:- 584mm x 16.5m*

Backing	Adhesive	Total Thickness	Electrical Resistance	Breaking strength	Adhesion to steel	UL Recognition/ Approvals
Tin-plated Copper	Acrylic Conductive	2.6 mils (0.066mm)	0.005 ohmes	25 Lb/in	35 oz/in	UL510



1194 Copper foil tape



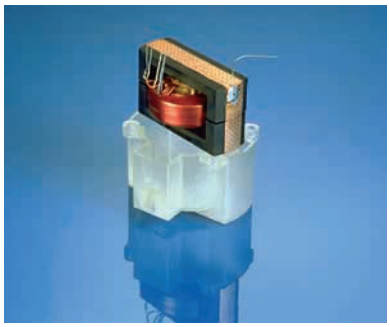
Copper foil
Acrylic adhesive
Removable liner

3M™ 1194 Tape (1.4 + 1.6 mils) - Copper Foil with Acrylic Non-conductive Adhesive

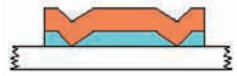
1194 Tape consists of a 1-ounce deadsoft copper foil backing and an aggressive non-conductive pressure-sensitive acrylic adhesive and is supplied on a removable liner for easy handling and die cutting. 1194 Tape is typically used for applications requiring economic electrical bonding, grounding and EMI shielding. The copper foil backing is solderable and resists oxidation and discoloration.

Size:- 584mm x 33m*

Backing	Adhesive	Total Thickness	Electrical Resistance	Breaking strength	Adhesion to steel	UL Recognition/ Approvals
Copper	Acrylic	2.6 mils (0.066mm)	N/A	25 Lb/in	40 oz/in	UL510



1245 embossed copper foil tape



Embossed foil
Acrylic adhesive
Removable liner

3M™ 1245 Tape (1.4 + 4.0 mils) - Embossed Copper Foil with Acrylic Non-conductive Adhesive

1245 Tape consists of an embossed 1-ounce deadsoft copper foil backing and an aggressive pressure-sensitive acrylic adhesive and is supplied on a removable liner for easy handling and die cutting.

The edges of the embossed pattern pressed into the foil cut through the adhesive layer to establish reliable metal-to-metal contact between the backing and the application substrate. The copper foil backing is solderable and resists oxidation and discoloration.

1245 Tape is typically used for applications requiring excellent electrical conductivity from the application substrate through the adhesive to the foil backing. Common uses include grounding and EMI shielding in equipment, components, shielded rooms, etc.

Size:- 584mm x 16.5m*

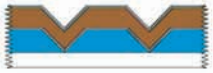
Backing	Adhesive	Total Thickness	Electrical Resistance	Breaking strength	Adhesion to steel	UL Recognition/ Approvals
Embossed Copper	Acrylic	4.0 mils (0.1mm)	0.001 ohmes	25 Lb/in	35 oz/in	UL510

*Rolls are available in varying sizes via our network of approved slitting distributors

Shielding Tapes - Copper



1345 Embossed tin-plated copper foil tape



Tin-plated embossed foil
Acrylic adhesive
Removable liner

3M™ 1345 Tape (1.4 + 4.0 mils) - Embossed Tin Plated Copper Foil with Acrylic Non-conductive Adhesive

1345 Tape consists of an embossed 1- ounce deadsoft tin-plated copper foil backing and an aggressive pressure-sensitive acrylic adhesive and is supplied on a removable liner for easy handling and die cutting.

The edges of the embossed pattern pressed into the foil cut through the adhesive layer to establish reliable metal-to-metal contact between the backing and the application substrate. 1345 Tape is typically used for applications requiring excellent electrical conductivity from the application substrate through the adhesive to the foil backing. Common uses include grounding and EMI shielding in equipment, components, shielded rooms, etc. The tin plating on the copper foil backing facilitates soldering and improves resistance to oxidation and discoloration.

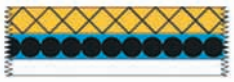
Size:- 584mm x 16.5m*

Backing		Adhesive	Total Thickness	Electrical Resistance	Breaking strength	Adhesion to steel	UL Recognition/ Approvals
Embossed Copper	Acrylic	4.0 mils (0.1mm)	0.001 ohms	25Lb/in	35 oz/in	UL510	

Gold & Silver Coated Tapes



AU-2190 Conductive embossed gold fabric tape



Gold-coated fabric
Acrylic adhesive with conductive particles
Removable liner

3M™ AU 2190 Tape (4.3 mils) - Gold Coated Polyester Fabric with Acrylic Conductive Adhesive

Conductive Gold Fabric Tape AU-2190 consists of gold-coated conductive fabric with conductive acrylic adhesive and is supplied on a removable liner for easy handling and die cutting.

Conductive Gold Fabric Tape AU-2190 is typically used for applications requiring excellent electrical conductivity from the application substrate through the adhesive to the conductive fabric backing. Common uses include grounding and EMI shielding in equipment, components, shielded rooms, etc.

Size:- 700mm x 25m*

Backing	Adhesive	Total Thickness	Dielectric Strength	Electrical Resistance	Breaking strength	Adhesion to steel	UL Recognition /Approvals
Gold Fabric	Acrylic Conductive	4.3 mils 0.11mm	-	0.005	40 Lb/in	31 oz/in	-



AG-2300 Conductive silver fabric tape



Silver-coated fabric
Acrylic adhesive with conductive particles
Removable liner

3M™ AG 2300 Metalised Cloth Tape (4.3 mils) - Silver Coated Polyester Fabric with Acrylic Conductive Adhesive

Conductive Silver Fabric Tape AG-2300 consists of silver coated conductive fabric with a conductive acrylic adhesive and is supplied on a removable liner for easy handling and die cutting.

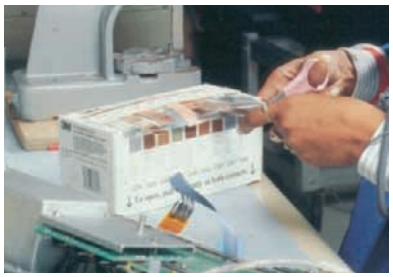
Conductive Silver Fabric Tape AG-22300 is typically used for applications requiring excellent electrical conductivity from the application substrate through the adhesive to the conductive fabric backing. Common uses include grounding and EMI shielding in equipment, components, shielded rooms, etc.

Size:- 1000mm x 50m*

Backing	Adhesive	Total Thickness	Elongation at Break	Electrical Resistance	Breaking strength	Adhesion to steel	UL Recognition /Approvals
Silver metalised Polyester Fabric	Acrylic Conductive	4.3 mils 0.11mm	20%	0.005	40 Lb/in	31 oz/in	-

*Rolls are available in varying sizes via our network of approved slitting distributors

Engineering Kit



Engineering Kit for Shielding Tapes

3M™ EMI Shielding Tapes have a multitude of uses in electronic design and test laboratories. The Engineering Kit offers ready access to the full line of 3M shielding tapes. Priced to enable companies to provide a kit for each of their engineers, the kit makes specifying, prototyping, troubleshooting, testing and repairing faster and easier.

The compact dispenser box (4 in. x 4 in. x 8.3 in.) serves as a desktop reference for the tapes. The box panels provide basic technical information about each tape, including product number, backing and adhesive type and thickness, adhesion, resistance, and shielding effectiveness.

Mesh & Sleeving

3M™ DS Series Electromagnetic Shielding Sleeves have superior flexibility and EMI shielding effectiveness. They are used to shield cables in automated equipment, metrology, and harnesses from main board to display components.





3M™ DS Series Electromagnetic Shielding Sleeves consist of sleeves braided with glass fibres overwound with tin-plated copper foil.

- Superior shielding effectiveness
- Excellent strain relief
- Superior flexibility
- Excellent heat stability
- Solderable
- Resists oxidation and discoloration
- UL recognised flame retardancy

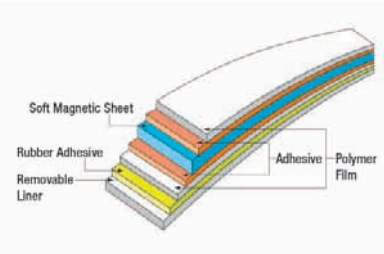
3M™ DS-MG/MN - Braided Glass Fibres Overwound With Tin-Plated Copper Foil

Product No.	Standard Size
DS-MG	7 mm diameter x 200m
DS-MN	14 mm diameter x 200m

Other sizes available

Shielding Film & Plates

3M™ EMI Shielding Sheets and Films provide EMI and RFI shielding for electronic applications, particularly printed circuit boards. These products are lightweight, flexible and easily designed into a range of applications.



3M™ 1380 (11.8 mils) - High-u Magnetic Shielding with Rubber Adhesive Sheet

High-μ Magnetic Shielding Sheet 1380 consists of a soft magnetic sheet sandwiched between layers of PET polymer film and coated with a unique pressure-sensitive thermosetting rubber adhesive and is supplied on a removable liner for easy handling and die cutting

3M Sheet 1380 is typically used for applications requiring excellent magnetic shielding properties at low frequency. Common uses include magnetic shielding at low frequency in mobile phones, personal computers, CRT, etc.

Size:- 460mm x 610mm*

Backing	Adhesive	Total Thickness	Magnetic layer Thickness	Magnetic permeability @50Hz	Resistivity	Density	Magnetic Flux Density
Magnetic Sheet + Polymer Film	Rubber Thermosetting	12 mils (0.305mm)	0.02 mm	100,000	1.2 microohm-m	7.3 gr/cc	1.23 T



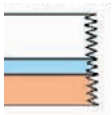
3M™ AL 10S/AL 1010S (7.8/13.8 mils) - Aluminium Foil with Epoxy Film Electromagnetic Shielding Sheet

Shielding Sheets AL-10S and AL-1010S consist of softened aluminium foil with flame-retardant film on one side or both sides.

- Excellent EMI shielding performance
- Lightweight
- Good flexibility
- UL recognised for flame retardancy per UL 510, Product category OANZ2, File 59505

3M AL-10S/AL-1010S is typically used for applications for EMI shielding with insulation for printed circuit boards and insulation between the boards

Shielding sheet/shielding plate (AL-10S, CU-10S)



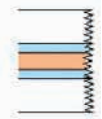
Flame-retardant epoxy film
Acrylic adhesive
Aluminium or copper foil

AL-10S

Backing	Adhesive	Total Thickness	Magnetic layer Thickness	Magnetic permeability @50Hz	Resistivity	Density	Magnetic Flux Density
Epoxy FR Film + Aluminium Foil	None (0.198mm)	7.8 mils (0.051mm)	2.0 mils	---	---	6 kV	UL 510

Size:- 300mm x 25m*

Shielding sheet/shielding plate (AL-1010S, CU1010S



Flame-retardant epoxy film
Acrylic adhesive
Aluminium or copper foil
Acrylic adhesive
Flame-retardant epoxy film

AL-1010S

Backing	Adhesive	Total Thickness	Magnetic layer Thickness	Magnetic permeability @50Hz	Resistivity	Density	Magnetic Flux Density
Aluminium Foil +Double Epoxy FR Film	None	13.8 mils (0.351mm)	2.0 mils (0.051mm)	---	---	6 kV	UL 510

Size:- 470mm x 25m*

*Rolls are available in varying sizes via our network of approved slitting distributors

Shielding Film & Plates



3M™ CU 10S (6.7 mils) - Copper Foil with Epoxy Film Electromagnetic Shielding Sheet

Shielding Sheets CU-10S consist of softened copper foil with flame-retardant film on one side or both sides.

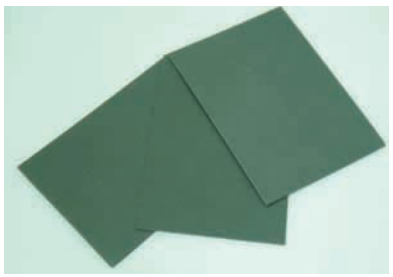
- Excellent EMI shielding performance
- Lightweight
- Good flexibility
- CU-10S UL recognised for flame retardancy per UL 94V-0, Product category OCDT2, File E101370.
- Solderable
- Die cut available

3M CU-10S is typically used for applications for EMI shielding with insulation for printed circuit boards and insulation between the boards

Size:- 470mm x 25m*

Backing	Adhesive Thickness	Total Thickness	Foil Adhesive Resistance**	Foil+ Strength	Breaking Strength	Dielectric Recognition / Approvals	UL
Epoxy FR Film + Copper Foil	None	6.7 mils (0.170mm)	1.4 mils (0.038mm)	---	---	6 kV	UL 94 VO

Absorbent Materials



3M™ AB 2025/2080/2120 (12.6/34.6/50.4 mils) - Silicone Rubber with Magnetic Filler with Acrylic Conductive Adhesive

3M™ AB 2000 Series EMI Absorber consists of thin and flexible soft magnetic filler loaded silicone rubber and acrylic pressure-sensitive adhesive.

- Polymer and magnetic filler
- Acrylic pressure-sensitive adhesive
- Supplied on a removable liner for easy handling and die-cutting

3M EMI Absorbers AB-2000 Series are typically used for applications requiring electromagnetic absorbing. These absorbers can sufficiently suppress radiated noise from electrical devices in the broadband frequency range common in such products as mobile equipment, mobile phones, and amplifiers, etc.

Size:- 300mm x 210mm*

Absorber	Backing Thickness
AB-2025	0.25 mm
AB-2080	0.80 mm
AB-2120	1.20 mm

AB-2000 series EMI absorber



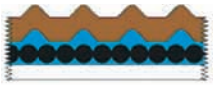
Silicon rubber with metallic filler
Acrylic adhesive
Removable liner

*Rolls are available in varying sizes via our network of approved slitting distributors

Gaskets & Conductive Cushions



3245 Reversed-embossed copper foil tape



Reversed-embossed copper foil
Acrylic adhesive with conductive particles
Removable liner

3M™ AB 3245 (5.9 mils) - Reverse-embossed Copper Foil with Acrylic Conductive Adhesive

3245 Tape consists of a reverse-embossed copper foil backing and a unique electrically conductive, pressure-sensitive acrylic adhesive with strong cohesion. The tape is easily applied, die cuttable, solderable and is UL recognised for flame retardancy per UL 510, Product category OANZ2, File 59505.

3245 Tape is typically used for applications requiring excellent electrical conductivity from the application substrate through the adhesive to the foil backing. Common uses include grounding and EMI shielding in equipment, components, shielded rooms, etc.

Size:- 500mm x 20m*

Backing	Adhesive	Total Thickness	Dielectric Strength	Electrical Resistance	Breaking strength	Adhesion to Steel	UL Recognition / Approvals
Embossed Copper	Acrylic Conductive	5.9 mils	–	0.001ohms/25mm^2	–	5.0 N/cm	UL510

SF-2500 Shield cushion foam tape



Silver coating
Polyurethane foam
Acrylic adhesive
Removable liner

3M™ SF 2500 (20.8 mils) - Polyurethane Foam Laminated with Polyester Film and an Acrylic Non-conductive Adhesive

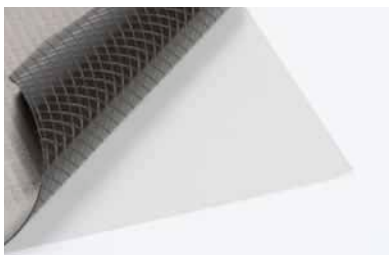
SF-2500 Shield Cushion Foam Tape is a conductive polyurethane foam laminated with polyester film. Typically used for applications requiring excellent electrical shielding and cushioning against mechanical shock.

Size:- 1000mm x 50m*

Backing	Adhesive	Total Thickness	Colour	Surface Resistance	Breaking strength	Elongation	Adhesion to Steel
Polyurethane Foam + Polyester Film	Acrylic	0.53 mm	Gray	0.1 ohms/sq in	55 Lb/in	80%	24 oz/in

*Rolls are available in varying sizes via our network of approved slitting distributors

Multifunction EMC Products



3M™ 7830N eCap - Multifunction Electrically Conductive Pad

7830N eCAP is a conductive gasket line with single sided adhesion, consists of a high performance 3M acrylic adhesive loaded with conductive fillers and a conductive fabric laminate. 3M eCAP 7830N is the best choice for gasket in 0.1 ~ 0.45 mm gap in electronic components and devices. Due to its proprietary technology the pad achieves a unique filler distribution in three dimensional structure throughout the adhesive matrix. This tape is excellent for use near electronic components and assemblies.

Thickness	180° Peel Adhesion	Surface Resistance on Fabric surface	Z-axis Resistance	Compression Deflection	Compression Set
0.2, 0.3, 0.4, 0.5 mm	700 ~ 1000 gf/inch	0.1 Ω/□	0.5 Ω	15 kg/in^2	14 %