Conductive transparent foil 9000

Easy way to make transparent shielded windows

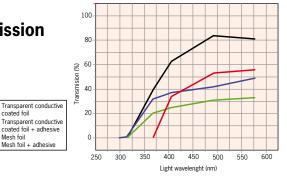


The easiest way to create transparent shielded windows, from standard displays, glass, acrylic, polycarbonate or plexiglass.

Mesh foil

Mesh foil is easily applied to glass, acrylic and polycarbonate, by hand or with a laminator. Mesh foil is effective between 10 KHz and 30 GHz. To make a electrical connection with your housing/enclosure we deliver mesh foil with flying mesh on the sides or with a silver bus bar (see section: Styles). For small areas or when thin wires are not suitable we have transparent conductive coating (Page 45).

Light transmission





What is mesh foil?

Mesh foil is a very fine wire mesh, laminated between two layers of transparent PET foil. The wires are so fine that you can hardly see them. The foil is scratch resistant and bends very well.

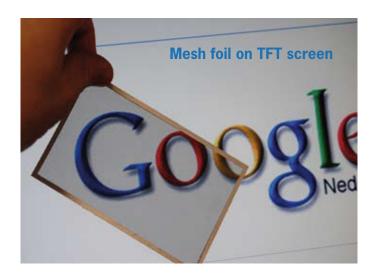
Types

Mesh foil can be produced in various versions:

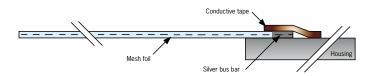
- Stainless steel
- Blackened copper (Standard)
- Phosphor bronze

Options

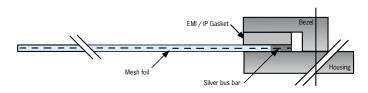
- Wires placed at custom angle to prevent moiré effect
- Placed on existing window
- Made of polycarbonate, acryl or glass
- With or without transparent self-adhesive



Mounting options



Standard mesh foil mounted with conductive tape 3201



Standard mesh foil mounted by a clamping construction with an EMI gasket. A water seal is optional.

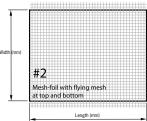
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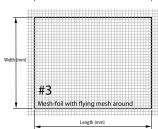
Styles

- #1 As sheets or on rolls.
- Width (mm)

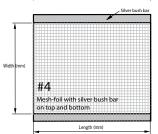
 #1
 Standard Mesh-foil
 Length (mm)
- #2 As sheets or on rolls. Flying mesh on 2 sides to make a connection.



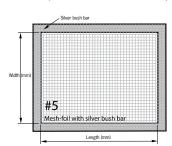
#3 Only as sheets.
Flying mesh on all sides to make a connection.



#4 Only as sheets. Silver bus bar at top and bottom to make a connection.

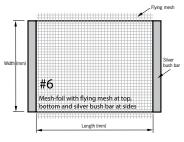


#5 Only as sheets. Silver bus bar around to make a connection.



#6 Only as sheet. Silver bush-bar and flying mesh to make a connection.

For small quantities, the most economical solution is style #1.



Technical details

Type (wires/inch)	100
Wire diameter (mm)	0.050
Nominal aperture (mm)	0.204
Light transmission %	64.5

^{*}Mesh foil 100 OPI is our standard mesh foil; 70, 80 and 250 OPI on request

Shielding performance (100 OPI)

Field type	Frequence	dB				
Н	10 kHz	22				
Н	100 kHz	35				
Н	1000 kHz	54				
Е	1 MHz	111				
Е	10 MHz	99				
E	100 MHz	95				
Р	1 GHz	72				
Р	10 GHz	45				
See Guarantee						

Standard part numbers

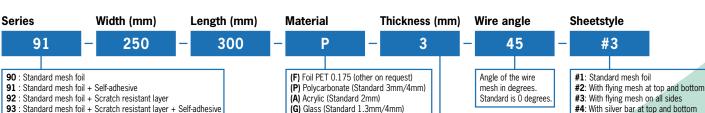
Size	Length	Part number			
(mm)	(m)	standard mesh foil	standard + self adhesive	standard + scratch resistant layer	standard + scratch resistant layer and self adhesive
10	5	90-10-5000	91-10-5000	92-10-5000	93-10-5000
20	5	90-20-5000	91-20-5000	92-20-5000	93-20-5000
30	5	90-30-5000	91-30-5000	92-30-5000	93-30-5000
40	5	90-40-5000	91-40-5000	92-40-5000	93-40-5000
50	5	90-50-5000	91-50-5000	92-50-5000	93-50-5000
100	2	90-100-5000	91-100-2000	92-100-2000	93-100-2000
200	2	90-200-2000	91-200-2000	92-200-2000	93-200-2000
1000	roll	90-1000-XX	91-1000-XX	92-1000-XX	93-1000-XX

Example

Specify the thickness in mm.

Standard mesh foil laminated onto 3 mm thick polycarbonate, visible area 250x 300 mm, wires placed at 45 degrees and sheet style #3.

Ordering information



#6: With flying mesh at top and bottom and silver bar left and right

#5: With silver bar on all sides