



Shielding Mesh

EMI shielding mesh is made of stainless steel wire mesh as well as copper and brass woven wire mesh to protect key equipment from RFI (Radio Frequency Interference) and/or EMI (Electromagnetic interference).

We have standard and optical shielding mesh for your specific requirements and the shielding meshes are flexible products which can be supplied in rolls, cut into pieces or as fabricated parts to suit individual requirements.

Benefits for sieving

- ✓ Effective shielding of electromagnetic radiation
- ✓ Assist avoiding the "Corona Effect" (air around component becoming conductive)
- ✓ High optical transparency
- ✓ Available in stainless steel, copper, brass and other alloy metals.
- ✓ Excellent fire and corrosion resistance
- ✓ Uniform mesh size and wire diameter
- ✓ Flat surface
- ✓ No oil spot.

Standard Shielding Mesh

Standard shielding mesh adopts stainless steel or copper woven wire cloth to shield electromagnetic radiation (RFI, EMI) in vehicles, electronics, buildings, rooms and equipment.

A wide variety of woven wire meshes are available for shielding electromagnetic waves and regular mesh include 50, 100, 165, 250 OPI and more specifications are as follows.

Specification

- Material: 304, 304L, 316, 316L, copper alloy, brass alloy or other alloy.
- Regular mesh: 50 mesh × 0.03 mm, 100 mesh × 0.03 mm, 165 mesh × 0.035 mm and 250 mesh × 0.03 mm.

Wire Mesh Parameter	Shielding Effectiveness	Transmittance	Product Application
100 mesh	52 dB	70%	Professionally applied to the ordinary standard shielded room window, all kinds of other equipment window.
165 mesh	60 dB	50%	Mainly used to shield the windows, the cabin window, high standard shielded room window.
250 mesh	70 dB	45%	Mainly used in monitor, display, equipment, instrumentation window

Optical Shielding Mesh – Blackened Woven Wire Mesh

For high demands on shielding effect and optical transparency in display panels, shielding meshes have been developed which have an absolutely uniform black coloration and high attenuation values.

This optical shielding mesh, also called EMI shielding glass screen, EMI mesh screen adopts blackened woven wire mesh, including blackened stainless steel wire mesh or blackened copper wire mesh to specially for displays, touch screen, windows on panels for supervision in military, mechanical and medical industries.

This blackened woven wire mesh (stainless steel or copper) is used to provide exceptional shielding performance, high transparency (up to 98%) and reduces glare for improved visibility. It is laminated between various substrates (acrylic or glass) or placed on the side not directly accessible (e.g. back side of a monitor screen) in military, mechanical and medical industries.

This optical shielding mesh provides exceptional shielding performance as well as high transparency (up to 98%).

The optical blackened shielding mesh is available in 100, 80, 50 OPI and more specifications are as follows.

Item	Mesh Count	Wire Diameter (mm)	Opening (μm)	Width Available (m)	Length Available (m)
BOSM-01	50 × 50*	0.03	478	1/1.22/1.5	30/60/100
BOSM-02	80 × 80	0.025	290	1/1.22/1.5	30/60/100
BOSM-03	100 × 100	0.025	230	1/1.22/1.5	30/60/100
BOSM-04	100 × 100*	0.03	220	1/1.22/1.5	30/60/100
BOSM-05	120 × 120	0.02	190	1/1.22/1.5	30/60/100
BOSM-06	120 × 120	0.03	180	1/1.22/1.5	30/60/100
BOSM-07	160 × 160	0.03	130	1/1.22/1.5	30/60/100
BOSM-08	160 × 160	0.05	110	1/1.22/1.5	30/60/100
BOSM-09	165 × 165*	0.03	120	1/1.22/1.5	30/60/100
BOSM-10	200 × 200	0.05	77	1/1.22/1.5	30/60/100
BOSM-11	250 × 250*	0.03	72	1/1.22/1.5	30/60/100