GETELEC
We protect your electronics

EMI SHIELDED WINDOWS

Electromagnetic interference (EMI) can be described as any electrical disturbance, whether a signal or noise, wich interferes with electrical equipment's ability to operate correctly.

OPTIC screened windows provide electromagnetic protection to the front of control screens, measurement indicators and displays while still providing good display visibility.

Examples of use :
- Military telecommunications radio
- Telecoms bay and cabinet display
- Hardened computer screen


EMI shielding window

Screened windows can be made from glass or polycarbonate to suit the operating conditions and desired performance.

Shielding is by means of a fine mesh metal screen placed between the two sheets of glass or polycarbonate. The metal screen is treated to darken it for optimal visual performance.

Earthing is via a conductive silver busbar located around the periphery of the filter. It can be moved to order, to the filter's front or rear surface. Continuity is then ensured by means of a conductive elastomer seal. Other means of ensuring continuity are also possible.

Fine-mesh screen	O.P.I	Number of cells per cm²	Mesh diameter (mm)	Field E attenuation (dB)			Plane wave attenuation (dB)			Transmission (%)
				1 MHz	10 MHz	100 MHz	400 MHz	16 Hz	10 GHz	
Copper	70	27	0.08	110	111	98	68	64	38	62
	100	39	0.03	> 120	> 120	100	67	54	50	81
	100	39	0.05	107	111	85	70	58	-	64
	145	57	0.05	128	112	106	84	82	64	51
Stainless	+50	+19	0.03	100	100	75	60	50	37	90
	50	19	0.05	94	90	82	58	55	28	81
	+80	+31	0.05	106	88	82	64	60	34	71
	+80x60	+31 x 23	0.03	102	105	103	75	60	43	84
	+100	+39	0.03	128	112	92	80	86	74	81
	+165	+64	0.05	137	124	106	100	81	61	45
	+200	+78	0.04	128	108	98	88	86	68	46
	+230	+90	0.03	140	120	95	94	80	60	46

"+" means silver plating before darkening
This values below are indicative only. Testing was on a sample of fine-mesh screens measuring 300 mm x 300 mm as per MIL-STD-285 standard. Transmission values are theoretical only, measured at the fine-mesh screen only.

Dimensions and thickness

OPTIC screened windows are made to customer specifications. Standard thicknesses are 2.5 mm, 3.0 mm, 4 mm and 6 mm. Other thicknesses are available on request.

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