



EMI-SHIELD CU50

Copper EMI Foil Shielding With & Without PSA



EMI-SHIELD CU50 is a 0.0050" (5 mil) (0.127mm) thick copper foil for use as an EMI/RFI shield against electromagnetic interference and meets MRI requirements. The foils are easy to work with and offer good shielding effectiveness across a wide range of frequencies, shielding against unwanted signals in or out of rooms and buildings.

EMI-SHIELD CU50 may be used to form shielded enclosures of almost any size or shape, with primary use in construction with low-cost shielded rooms, shielded anechoic chambers and other shielded test rooms.

EMI-SHIELD products are unique as they come with 2 mil Pressure Sensitive Adhesive (PSA) as the bonding mechanism. PSA offers a no-mess, no odor simple method of application method for applying the E-SHIELD to substrates. E-SHIELD is also available without PSA backing.

CU50 TYPICAL SHIELDING ATTENUATION PERFORMANCE (Insertion Loss per MIL STD 285)	
FREQUENCY	Attenuation (dB)
14 KHz, Magnetic Field	≥ 30
200 KHz, Magnetic Field	≥ 50
10 KHz, Electrical Field	100
200 KHz, Electrical Field	100
1 MHz, Electrical Field	100
10 MHz, Electrical Field	100
400 MHz, Plane Wave	100
1 GHz Plane Wave	100
10 GHz Plane Wave	100

EMI-SHIELD CU50 is applied like wallpaper, covering all surfaces: floor, walls and ceiling. Other than normal cleanliness, and dust free, no special preparation is required. The foil may be stapled or glued in-place or ordered with a Pressure Sensitive Adhesive (PSA).

E-SHIELD products should be overlapped by a minimum of 3" to avoid RF leakage. For maximum effectiveness, seams should be taped with 4" wide, electrically conductive adhesive tape.

ORDERING INFORMATION

EMI-SHIELD CU50 is available in standard widths of 36" lengths of 65 ft with other dimensions available on special order. Either with or without PSA.

EMI-SHIELD CU50 Tape is also available in electrically conductive backed PSA, 4" & 6" x 75 ft rolls.



Wear correct gloves when installing the foil, the edge is like a razor blade