



FlexiShield Ultra[®]

Ultra High Performance RF Isolation Shielding



FlexiShield Ultra[®] is a simple solution for effective RF signal attenuation in any commercial application. It provides –100 dB RF isolation from 100 MHz to over 18GHz. Very light, thin, flexible, fire, wear and tear resistant, it can be applied directly to standard sheetrock, pre-finished panels, and other structures using simple and inexpensive methods. The product is well suited to both new and retrofit construction. It provides a high degree of isolation typically seen with heavier metal sheathing. It offers significant savings in engineering, labor, and construction costs and needs virtually no physical space unlike competitive materials.

FlexiShield Ultra[®] does not require specialized tools or techniques to apply. This flexible product comes in rolls. Special shapes can be fabricated for custom applications. It can be modified to your specific requirements.

Typical applications:

- Medical uses, including RF shielding for hospital instrumentation, MRI installations and Intensive Care Units.
- Security uses, including RF shielding to prevent the use of cellular telephones and other communication devices (including covert ones) in selected areas.
- Construction of RF quiet zones for scientific and developmental research.
- Isolation of noisy RF sources to protect sensors and receivers.
- Isolation of cell tower transmitters to protect building inhabitants.

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Construction:

Bi-layer flexible panel consisting of isolation material and ground plane.

Size:

Typically supplied in rolls of 36 or 54 in (91 cm or 137 cm).
Can be made to customer requirements.

Color:

Copper with silver reverse.

Mechanical properties:

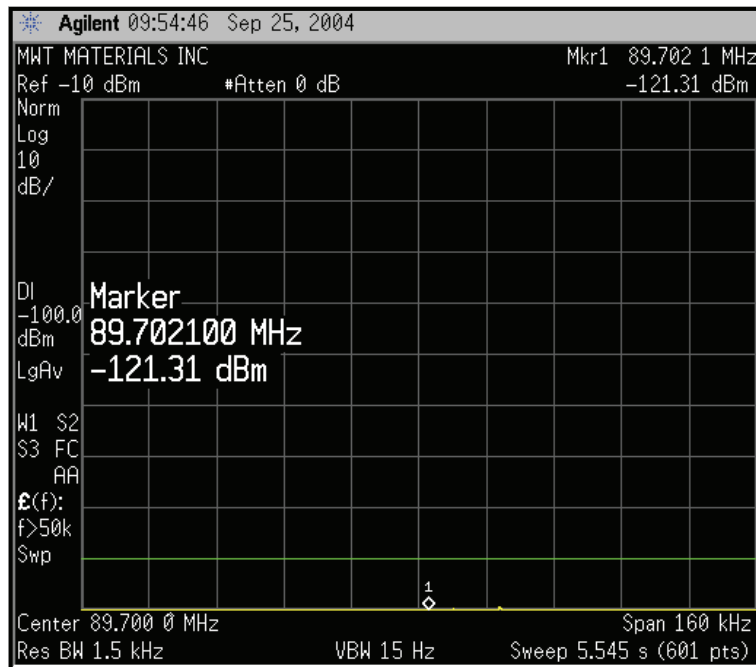
Substrate	Polyester Nonwoven
Metal	Nickel over copper
Basis Weight	12.5-14.5 oz/yard ²
Thickness	0.052 in (0.0178 cm)
Weight	Typically less than 0.1 lbs/ft ² (0.45 kg/m ²)
Thermal Stability	Range of -40°F to 160°F
Elongation MD	9% (per AST< D5035
Tensile Strength	7.5 / 18.5 lb/in (CMD / MD)
Hazardous Material	None

Performance:

Greater than -100 dB RF isolation from 100 MHz to over 18GHz
Nail, screw and staple punctures have no effect on signal attenuation

Flammability:

Can be made to meet non flammable spec UL 94VTM-0 upon customer request



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Signal of a portable one watt transmitter set to 89.7 MHz inside a plywood isolation chamber with MAC 2100 WP RF shielding material applied to the surface of the box. Spectrum analyzer shows a signal attenuation of -120 dB

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