

Ni/Cu MRI “A” FABRIC

Laird’s MRI “A” Fabric is an EMI/RFI shielding product that is manufactured using a patented, proprietary technology. The base layer is a metallized Non-woven fabric plated with highly conductive copper and nickel for corrosion resistance. This is bonded to a thin layer of solid aluminum. The resulting material is a lightweight architectural material with superior shielding effectiveness and outstanding resilience.

Specifically, this product provides superior shielding effectiveness well in excess of industry standards throughout the MRI frequency range. The product can be applied using several standard construction techniques depending upon the installation requirements or specifications. Because of the relative ease of installation with this product, construction time and therefore, the time to get the MRI facility on-line is greatly reduced.

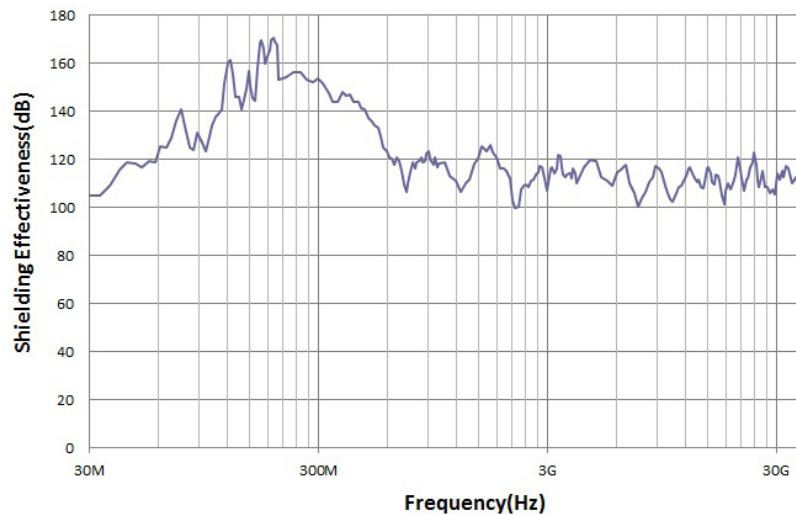
FEATURES

- RoHS compliant
- Halogen-free per IEC-61249-2-21 standard
- Low surface resistivity of $\leq 0.07 \Omega/\square$ provides excellent conductivity
- Shielding effectiveness of >100 dB across a wide spectrum of frequencies

MARKETS

- Architectural Shielding
- Medical Equipment

**Ni/Cu MRI “A” Fabric (3027-532C)
Shielding Effectiveness**



USA: +1.866.928.8181
Europe: +49.0.8031.2460.0
Asia: +86.755.2714.1166

PHYSICAL PROPERTIES

Item	Unit	Value	Advantage
Substrate		Composite Polyester Non-woven Fabric and Foil	Flexible and Light Weight
Metal		Fabric: Nickel/Copper Foil: Aluminum	Corrosion Resistant, Highly Conductive
Thickness, (ASTM D1777)	inches microns	0.016 +/- 0.002 406 +/- 51	Provides Excellent Shielding
Total Weight	oz/yd ² g/m ²	7.5 +/- 1.3 254 +/- 44	Excellent Electrical Properties
Max Short Duration Temperature	°F °C	194 90	Allows Thermal Processing
Standard Roll Width	inches cm	51 130	Fewer Seams Requisred

ELECTRICAL PROPERTIES

Item	Unit	Value
Surface Resistivity (ASTM F390)	ohms/square	≤ 0.07
Shielding Effectiveness	dB	(average)
At 30 MHz – 300 MHz		143 dB
At 300 MHz – 3 GHz		121 dB
At 3 GHz – 30 GHz		112 dB

MECHANICAL PROPERTIES

Item	Unit	Value ^h
Tensile Strength, CMD/MD ^o (ASTM D5035)	lb/in N/100mm	20/60 350/1050
Elongation, MD (ASTM D5035)		8%

^o Cross Machine Direction/Machine Direction

Values presented have been determined by standard test methods and are typical values not to be used for specification purposes.

EMI-DS-FOF-3027-532C 082715

Any information furnished by Laird and its agents is believed to be accurate and reliable. All specifications are subject to change without notice. Responsibility for the use and application of Laird materials rests with the end user, since Laird and its agents cannot be aware of all potential uses. Laird makes no warranties as to the fitness, merchantability or suitability of any Laird materials or products for any specific or general uses. Laird, Laird Technologies, Inc. or any of its affiliates or agents shall not be liable for incidental or consequential damages of any kind. All Laird products are sold pursuant to the Laird Technologies' Terms and Conditions of sale in effect from time to time, a copy of which will be furnished upon request. © Copyright 2015 Laird Technologies, Inc. All Rights Reserved. Laird, Laird Technologies, the Laird Logo, and other marks are trademarks or registered trademarks of Laird Technologies, Inc. or an affiliate company thereof. Other product or service names may be the property of third parties. Nothing herein provides a license under any Laird or any third party intellectual property rights.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Laird Performance Materials:](#)

[3027532C-STD](#)