



COPPER PLATED NYLON RIPSTOP FABRIC WITH ANTI-TARNISH COATING

Laird's Electron[®] Conductive Nylon Ripstop is a unique fabric manufactured using a patent pending, proprietary technology. This technology combines highly conductive copper with a corrosion resistant coating. Copper Nylon Ripstop offers excellent shielding effectiveness for a variety of applications without the risk of an allergy issue that could be caused by Nickel metal. Electron[®] Copper Nylon Ripstop can be used in many different configurations to protect against EMI/RFI and to prevent unauthorized access to sensitive information.

FEATURES

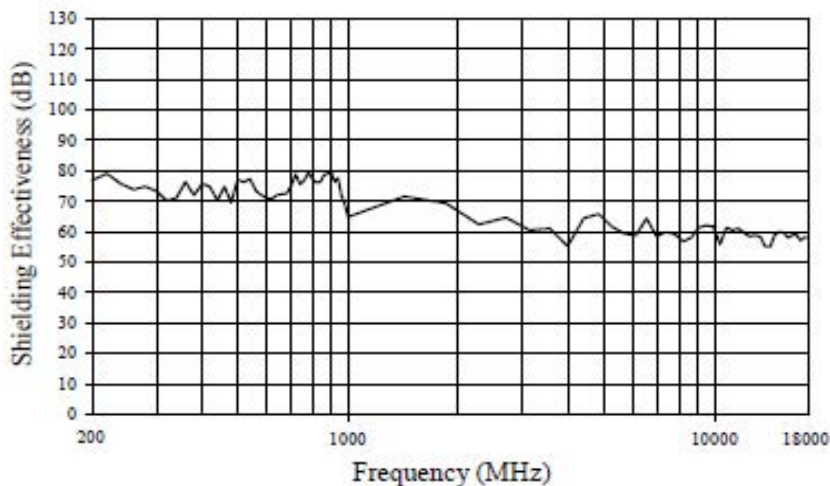
- RoHS compliant
- Halogen-free per IEC-61249-2-21 standard
- Low surface resistivity of $< 0.07 \Omega/\square$ provides excellent conductivity
- Shielding effectiveness of >60 dB across a wide spectrum of frequencies
- Nickel Free per BS EN 1811-1999
- Hypoallergenic (Biocompatible per ISO 10993-10:2010)

MARKETS

- Consumer accessories such as wallets, handbags and touch screen gloves
- Medical equipment
- Electronics travel cases
- Luggage

Copper Plated Nylon Ripstop (3050-113) Shielding Effectiveness

Cu Nylon Ripstop (3050-113)
Shielding Effectiveness per MIL-STD-285 (Mod.)



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3050-113 EcoTouch™ Conductive Ripstop Fabric

PHYSICAL PROPERTIES

Item	Unit	Value	Advantage
Substrate		Nylon Ripstop	Strong, Flexible, Conformable
Metal		Cu	Highly Conductive
Total Weight	oz/yd ² (g/m ²)	1.6 – 2.3 (54 – 78)	Light Weight
Thickness, (nominal)	inches (microns)	0.005 (127)	Thin and Flexible
Max Short Duration Temperature	°C	200	Allows Thermal Processing

ELECTRICAL PROPERTIES

Item	Unit	Value
Surface Resistivity (ASTM F390)	ohms/square	≤ 0.07
Far-field Shielding	effectiveness	(typical)
200 MHz to 1 GHz	dB	75
1 GHz to 18 GHz	dB	60

MECHANICAL PROPERTIES

Item	Unit	Value
Tensile Strength, CMD/MD [∘] (ASTM D5035)	lb/in	25/50
Elongation, MD (ASTM D5035)		30%

[∘]Cross Machine Direction/Machine Direction