Laird
Smart Technology. Delivered.™

3035-535 Nickel/Copper Taffeta Fabric

NI/CU POLYESTER TAFFETA FABRIC WITH ANTI-FRAY

Laird Technologies' Flectron® Nickel/Copper Polyester Taffeta is a unique fabric, manufactured using a patented, proprietary technology. This technology combines highly conductive copper and corrosion resistant nickel with the lightweight, flexibility, conformability, strength and uniform appearance of a woven. Nickel/ Copper Polyester Taffeta offers excellent surface conductivity, shielding effectiveness, and reflectivity for a variety of applications.

Flectron® Nickel/Copper Polyester Taffeta can be used in many different configurations to protect against EMI/RFI for a variety of applications and environments. Typical applications include: enclosures, curtains, gaskets, cable wrap, tapes, shielding, laminates, and grounding.

FEATURES RoHS

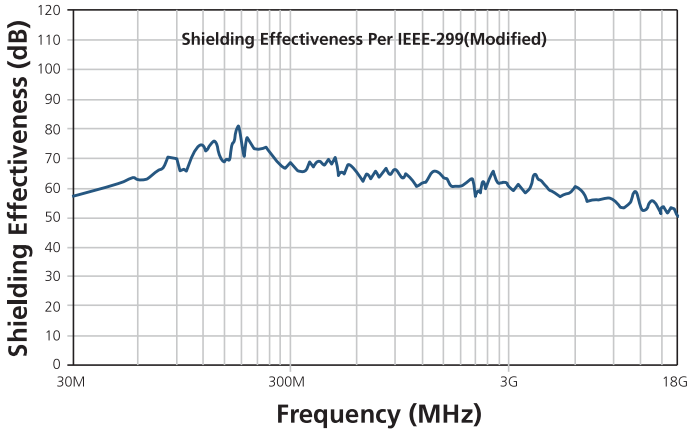
- RoHS compliant
- Halogen-free per IEC-61249-2-21 standard
- Low surface resistivity of ≤ 0.07 Ω/□ provides excellent conductivity
- Shielding effectiveness of >56 dB across a wide spectrum of frequencies

MARKETS

ecoGREEN™

- Cabinet applications
- LCD and Plasma TV
- Medical equipment
- Servers
- Printers
- Laptop computers

Ni/Cu Polyester Taffeta with Anti-Fray (3035-535)
Shielding Effectiveness



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www.lairdtech.com

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Taffeta Fabric

PHYSICAL PROPERTIES

Item	Unit	Value	Advantage
Substrate		Polyester Taffeta	Strong, Flexible, Conformable
Metal		Ni/Cu	Corrosion Resistant, Highly Conductive
Total Weight	oz/yd² (g/m²)	2.2 – 3.1 (75 – 105)	Light Weight
Thickness, (nominal)	inches (microns)	0.0045 (117)	Thin and Flexible
Metal Weight	oz/yd² (g/m²)	0.70 – 1.30 (24 -44)	Excellent Electrical Properties
Max Short Duration Temperature	°C	210	Allows Thermal Processing

ELECTRICAL PROPERTIES

Item	Unit	Value
Surface Resistivity (ASTM F390)	ohms/square	≤ 0.07
Far-field Shielding	effectiveness	(typical)
30 MHz to 300 MHz	dB	70 average
300 MHz to 3 GHz	dB	64 average
3 GHz to 18 GHz	dB	56 average

MECHANICAL PROPERTIES

Item	Unit	Value[fi]
Tensile Strength, CMD/MD[◊] (ASTM D5035)	lb/in (N/100mm)	50/75 (0.7)
Elongation, MD (ASTM D5035)		30%

[fi] Typical values for greige fabric
[◊] 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.