



## NI/CU POLYESTER TAFFETA FABRIC WITH ANTI-FRAY

Laird Technologies' Electron<sup>®</sup> 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.

Electron<sup>®</sup> 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

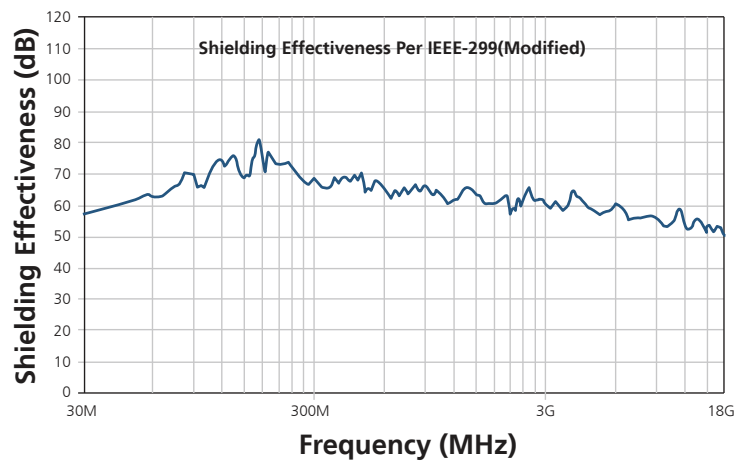
- RoHS compliant
- Halogen-free per IEC-61249-2-21 standard
- Low surface resistivity of  $\leq 0.07 \Omega/\square$  provides excellent conductivity
- Shielding effectiveness of  $>56$  dB across a wide spectrum of frequencies

### MARKETS

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



### Ni/Cu Polyester Taffeta with Anti-Fray (3035-535) 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		Polyester Taffeta	Strong, Flexible, Conformable
Metal		Ni/Cu	Corrosion Resistant, Highly Conductive
Total Weight	oz/yd <sup>2</sup> (g/m <sup>2</sup> )	2.2 – 3.1 (75 – 105)	Light Weight
Thickness, (nominal)	inches (microns)	0.0045 (117)	Thin and Flexible
Metal Weight	oz/yd <sup>2</sup> (g/m <sup>2</sup> )	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 <sup>fi</sup>
Tensile Strength, CMD/MD <sup>o</sup> (ASTM D5035)	lb/in (N/100mm)	50/75 (0.7)
Elongation, MD (ASTM D5035)		30%

<sup>fi</sup> Typical values for greige fabric

<sup>o</sup> 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-3035-535 051315

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.