

## **3070-500 Nickel/Copper** Polyester Fabric



#### **NI/CU POLYESTER KNITTED MESH**

Laird Technologies' Flectron<sup>®</sup> Nickel/Copper Polyester Knitted Mesh 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, breathability and uniform appearance of a knitted mesh. Mesh offers excellent surface conductivity, shielding effectiveness, and reflectivity for a variety of applications.

Flectron<sup>®</sup> Nickel/Copper Polyester Knitted Mesh 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**

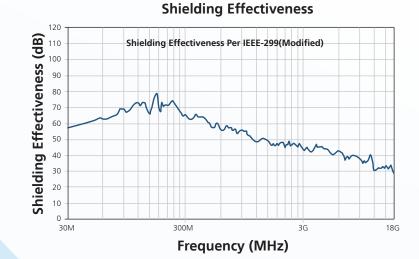
- RoHS compliant
- Halogen-free per IEC-61249-2-21 standard
- Low surface resistivity of  $\leq 0.10 \ \Omega/\Box$  provides excellent conductivity

### MARKETS

Cabinet applications

COGREEN'

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



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

Ni/Cu Polyester Mesh (3070-500)

www.lairdtech.com



# **3070-500 Nickel/Copper** Polyester Fabric

#### **PHYSICAL PROPERTIES**

| ltem                           | Unit             | Value                    | Advantage                                 |
|--------------------------------|------------------|--------------------------|---|
| Substrate                      |                  | Polyester Knit Mesh      | Breathable, Flexible,<br>Conformable      |
| Metal                          |                  | Ni/Cu                    | Corrosion Resistant,<br>Highly Conductive |
| Total Weight                   | oz/yd² (g/m²)    | 1.3 – 2.3 (44– 78)       | Light Weight                              |
| Thickness, (nominal)           | inches (microns) | 0.007 (178)              | Thin and<br>Flexible                      |
| Metal Weight                   | oz/yd² (g/m²)    | 0.40 - 0.80 (13.5 -27.0) | Excellent Electrical<br>Properties        |
| Max Short Duration Temperature | °C               | 210                      | Allows Thermal<br>Processing              |

#### **ELECTRICAL PROPERTIES**

| Item                            | Unit          | Value      |
|---------------------------------|---------------|------------|
| Surface Resistivity (ASTM F390) | ohms/square   | ≤ 0.01     |
| Far-field Shielding             | effectiveness | (typical)  |
| 30 MHz to 300 MHz               | dB            | 68 average |
| 300 MHz to 3 GHz                | dB            | 53 average |
| 3 GHz to 18 GHz                 | dB            | 38 average |

#### **MECHANICAL PROPERTIES**

| Item   | Unit            | Value <sup>fi</sup> |
|--|-----------------|---------------------|
| Tensile Strength, CMD/MD <sup>o</sup> (ASTM D5035) | lb/in (N/100mm) | 20/20 (352/352)     |
| Elongation, MD (ASTM D5035)                        |                 | 30%                 |

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

<sup>o</sup> Cross Machine Direction/Machine Direction

#### EMI-DS-FOF-3070-500 0413

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