

3055-233 Nickel/Copper Polyester Ripstop Fabric



NI/CU POLYESTER RIPSTOP FABRIC

Flectron® Nickel/Copper Polyester Ripstop is a unique fabric, manufactured using a patented, proprietary technology. The base layer is highly conductive copper, with an outer layer of nickel for corrosion resistance. This technology combines the properties of these metals with the light weight, drapability, strength, and attractive appearance of a polyester ripstop fabric. Nickel/Copper Polyester Ripstop offers excellent surface conductivity, shielding effectiveness, and corrosion resistance for a variety of applications.

Flectron® Nickel/Copper Polyester Ripstop can be used in many different configurations to protect against EMI/RFI and ESD in a variety of applications. Typical applications include: enclosures, cables, tapes, and grounding.

FEATURES

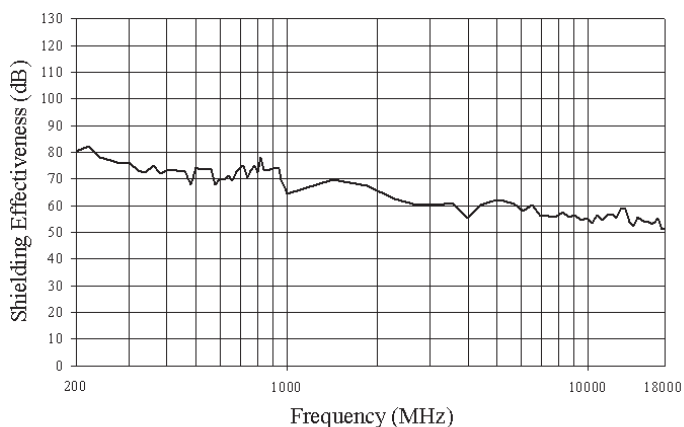
- RoHS compliant
- Halogen-free per IEC-61249-2-21 standard
- Low surface resistivity of $< 0.07 \Omega/\square$ provides excellent conductivity
- Shielding effectiveness of >50 dB across a wide spectrum of frequencies

MARKETS

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



Ni/Cu Polyester RipStop (3055-233)
Shielding Effectiveness per MIL-STD-285 (Mod.)



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PHYSICAL PROPERTIES

Item	Unit	Value	Advantage
Substrate		Polyester Ripstop	Strong, Flexible, Conformable
Metal		Ni/Cu	Corrosion Resistant, Highly Conductive
Total Weight	oz/yd ² (g/m ²)	2.3 – 3.3 (78 – 112)	Light Weight
Thickness, (nominal)	inches (microns)	0.007 (178)	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)
@100 MHz	dB	80 average
@1 GHz	dB	70 average
@18 GHz	dB	50 average

MECHANICAL PROPERTIES

Item	Unit	Value [†]
Tensile Strength, CMD/MD [°] (ASTM D5035)	lb/in	60/55
Elongation, MD (ASTM D5035)		27%

[†] Typical values for greige fabric

[°] Cross Machine Direction/Machine Direction