



## NI/CU POLYESTER BLACK CONDUCTIVE FABRIC TAPE

Laird Technologies' Black Conductive Fabric Tape 86285 offers exceptional conformability and conductivity for dynamic flex applications. It is black in color and is constructed of nickel/copper metallized fabric with a conductive pressure sensitive adhesive (PSA). This reliable tape design provides outstanding shielding performance while offering superior abrasion and corrosion resistance under high dynamic flex conditions. The 86285 is a halogen free product and can be supplied in tape or further customized to application by die-cutting or hole punching.

### FEATURES

- RoHS compliant
- Halogen-free per IEC-61249-2-21 standard
- Low surface resistivity of  $< 0.06 \Omega/\square$  provides excellent conductivity
- Shielding effectiveness of  $>75$  dB across a wide spectrum of frequencies

### MARKETS

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

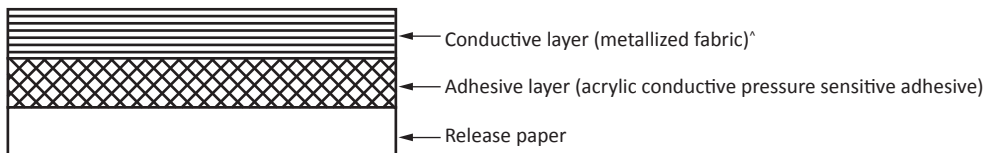


USA: +1.866.928.8181  
Europe: +49.0.8031.2460.0  
Asia: +86.755.2714.1166

Item	Unit	Value	Test Method
Thickness	mm	0.12 mm ± 0.02	-
Peel Adhesion	Kgf / 25 mm	>1.2	PSTC 101*
Shear Adhesion			
at R.T.	Hrs	>72	PSTC 107#
at 80°C	Hrs	>3	PSTC 107#
Tensile Strength	Kgf / 25 mm	>12	
Operation Temperature	°C	0-80	
Surface Resistivity (Fabric Side)	Ω/□	<0.06	ASTM F390
Z-axial Resistance	Ω	<0.04	
Shielding Effectiveness			ASTM D4935
at 100 MHz	dB	75	
at 1GHz	dB	80	
Package Dimensions (Max. Width: 1000 mm)	M	W: Dimension by Customer Spec L: Standard Length of 20 M	
Shelf Life (Under 23°C/65% R.H.)		12 Months	

\*:Test Method A, dwell time 30 min. #:Contact area 25 mm by 25 mm  
Values presented have been determined by standard test methods and are typical values not to be used for specification purposes.

## COMPOSITION OF PRODUCT



<sup>^</sup>: Treated with a layer of black top coating

## APPLICATION TECHNIQUES

- Bond strength is dependent upon the amount of adhesive-to-surface contact developed.  
Firm application pressure develops better adhesive contact & thus improves bond strength.
- To obtain optimum adhesion, the bonding surfaces must be clean, dry and well unified.  
A typical surface cleaning solvent is isopropyl alcohol. Use proper safety precautions for handling solvents.
- Ideal tape application temperature range is 21°C to 38°C. Initial tape application to surfaces at temperatures below 10°C is not recommended because the adhesive becomes too firm to adhere readily. However, once properly applied, low temperature holding is generally satisfactory.

EMI-DS-FOF-86285\_072815

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.