



TECHNICAL DATA

Xalon XFT50 CONDUCTIVE COPPER TAPE

Xalon XFT50 RF Conductive Copper Tape consists of a .005" thick 110 annealed electrolytic tough pitch copper that is highly conductive backed by a 2 mil proprietary electrically conductive acrylic adhesive. The adhesive is designed for laminating to a variety of surfaces including painted surfaces, metals, and various plastic films. It features excellent Z direction conductivity, good chemical resistance, and has moderate tack and high shear strength.

Typical Adhesive Performance Data:

Copper Foil Thickness	5 Mils	
Adhesive Thickness	2 Mils	
Liner Type	76# Moisture-Resistant Polycoated	
Peel Adhesion (PSTC 101 Mod 180°) Initial to SS (20 min dwell)	<u>Oz./Inch</u> 47	<u>N/25mm</u> 13.2
Holding Power (PSTC 107 Mod./178°) 2.2 psi (1"x1"x1000g)		≥600 min.
Volume Resistivity (ASTM D2739-97 Modified)	0.06Ω•m	
Resistivity (WIN TM 070)	5m Ω	
Minimum Application Temperature	50 Degrees F	
No Load Applied, Service Temperature Range	-40 to 250 Degrees F	

Shelf Life: 1 year when stored at 70°F (21°C) and 50% relative humidity.



**CU50 SHIELDING ATTENUATION
As Installed Butt Joint & 4" EC Seam Taped
(Insertion Loss per IEEE-299)**

FREQUENCY	Attenuation (dB)
14 KHz, Magnetic Field	≥ 30
200 KHz, Magnetic Field	≥ 50
10 KHz, Electrical Field	100
200 KHz, Electrical Field	100
1 MHz, Electrical Field	100
10 MHz, Electrical Field	100
400 MHz, Plane Wave	100
1 GHz Plane Wave	95
10 GHz Plane Wave	90
18 GHz, Plane Wave	80
40 GHz, Plane Wave	80

*Note: All information, recommendations, and suggestions contained herein shall only be used as a guide by the Purchaser and not for specification or any other purposes. This information also does not constitute a warranty nor guaranty of any type whatsoever. Purchaser should independently determine suitability of all material purchased and must confirm adaptability and other characteristics by conducting their own tests. Xalon RF shall have no liability as a result of any loss, expense, damage, cost or other injury which results from Purchaser's reliance on the information.

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