CHO-FAB

Electrically Conductive Fabric Tape

Customer Value Proposition

Parker Chomerics CHO-FAB™ Electrically Conductive Fabric Tape is ideal for applications requiring lighter weight and a more flexible electrically conductive tape than metal foil tapes provide. CHO-FAB tape provides excellent EMI shielding and good corrosion resistance. In the case of shielded cables, CHO-FAB tape is very conformable, strong, lightweight, and doesn't have sharp edges that are present on metal foil tapes.

CHO-FAB tape provides an economical solution to applications requiring excellent electrical conductivity across substrates and offers a low-impedance connection between a braided cable shield and the metal connector back shell in molded cables.

Seams of EMI shielded rooms and other shielded test enclosure setups are more easily sealed with CHO-FAB tape than metal foil tape to provide electrical continuity and thus higher shielding effectiveness.

Features and Benefits

- Made of fabric tape constructed from a nickel-plated silver conductive material
- Available with single-sided acrylic electrically conductive pressure sensitive adhesive (PSA)
- Lightweight and more flexible than metal foil tapes
- Excellent shielding and good corrosion resistance performance
- Lacks sharp edges that are present on foil tapes
- Very conformable while maintaining strength
- Available as rotary kiss cut parts on rolls, die-cut parts, or in slit roll widths from 0.5 in (12.7 mm) to 24 in (609.6 mm)
- Bulk roll lengths are 18 yards (16.5 m) or 36 yards (33 m)

Typical Applications

- Enclosure shielding
- Braided cables/wires
- Mating flanges
- Grounding

Contact Information

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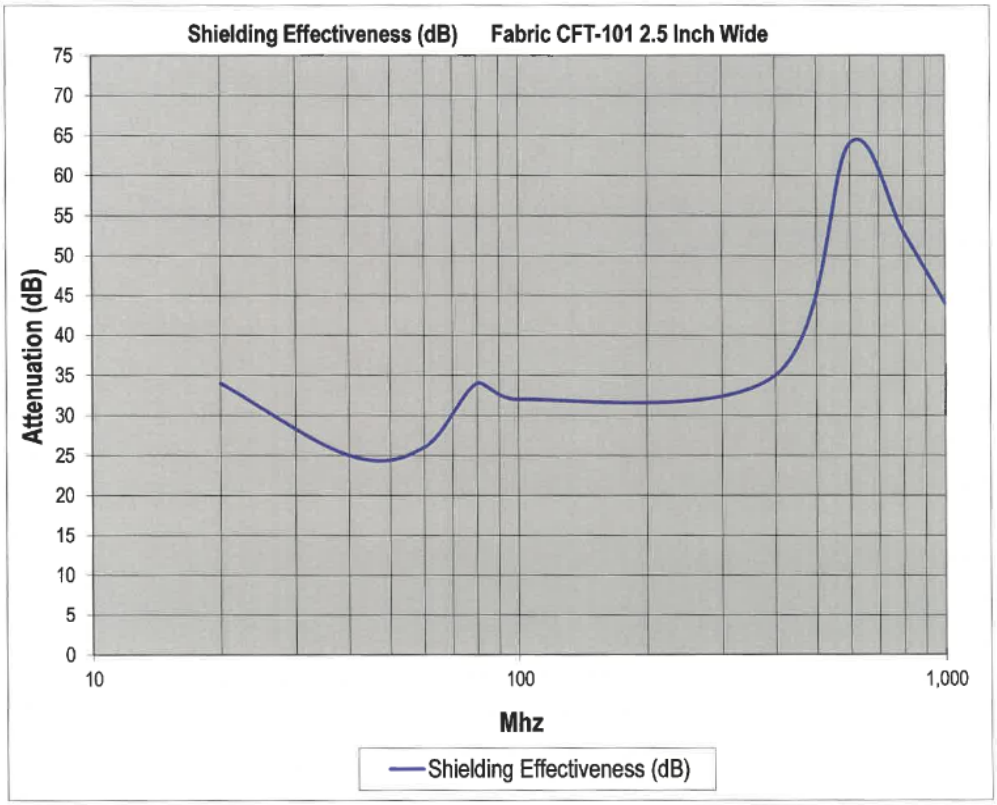
CHO-FAB® – Product Information

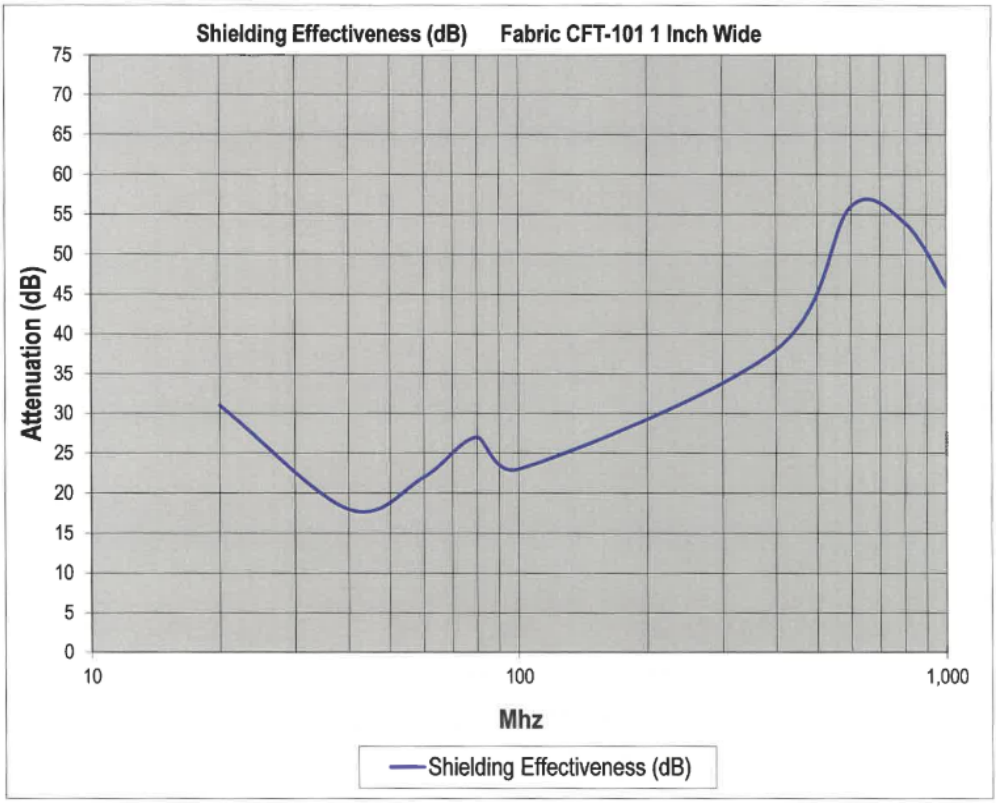
PROPERTIES		
Property	**Test Method**	**Typical Values**
		CHO-FAB
Part Number Prefix	-	CFT
Foil/Fabric Type	-	Nickel Plated Silver
Foil/Fabric Thickness, mils (mm)	-	5 (0.127)
Adhesive Type	-	Electrically Conductive, Pressure-Sensitive Acrylic
Adhesive Thickness, mils (mm)	-	1.5 (0.0381)
Total Thickness, mils (mm)	-	6.5 (0.165)
Temperature Range, ^{0}F (^{0}C)	-	-40 to 180 (-40 to 82)
Electrical Resistance, ohms/in^2 (ohms/cm^2)	MIL-STD-202C Method 303	<0.100 (<0.016)
Flame Resistance	UL 510	N/A
	UL94V-0	N/A
Adhesion to Aluminum oz./in. [ppi] (N/m)	ASTM D1000	>40 [2.5] (438)
Outgassing, % TML (% CVCM)	ASTM E595	Not Tested
Shelf Life from Date Of Shipment		2 years

PART NUMBER	TAPE DESCRIPTION	MAXIMUM ROLL WIDTH IN INCHES
CFT -**XX**–101–**WWWW**	Nickel-Plated Silver fabric, conductive adhesive	**17**

TYPICAL TAPE WIDTHS (WWWW) inch (mm)					
0050	**0100**	**0150**	**0200**	**0300**	**0400**
0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	2.0 (50.8)	3.0 (76.2)	4.0 (103)

Custom widths available up to **17** inches (**43.18** cm)


Shielding Effectiveness (dB) Fabric CFT-101 2.5 Inch Wide
Attenuation (dB)
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
10
100
1,000
Mhz
Shielding Effectiveness (dB)


Shielding Effectiveness (dB) Fabric CFT-101 1 Inch Wide
Attenuation (dB)
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
10
100
1,000
Mhz
Shielding Effectiveness (dB)

CHO-FAB® – Product Information

Performance Test Data

Test	Test Data	Test Method
Part Number Prefix	**CFT**	
Pre-Bake		
Initial Surface Resistivity, milliohms*	<100	CHO-TP-57***
Initial Through Resistivity, milliohms*	<10	
Initial Peel Strength, oz/in [ppi] (N/m)	44.8 [2.8] (40)	ASTM-D1000
Initial Taber Abrasion Surface Resistivity, milliohms	<100	CHO-TP-57***
Heat Aging (185˚F [85˚C] @ 168 hrs)		
Surface Resistivity, milliohms*	<100	CHO-TP-57***
Through Resistivity, milliohms*	<150	
Peel Strength, oz/in [ppi] (N/m)**	59.2 [3.7] (648)	ASTM-D1000
Heat Aging (250˚F [121˚C] @ 168 hrs)		
Surface Resistivity, milliohms*	<100	CHO-TP-57***
Through Resistivity, milliohms*	<150	
Peel Strength, oz/in [ppi] (N/m)**	43.2 [2.7] (473)	ASTM-D1000
Heat + Humidity Aging (185˚F [85˚C] @ 168 hrs @ 95% RH)		
Surface Resistivity, milliohms*	<100	CHO-TP-57***
Through Resistivity, milliohms*	<150	
Peel Strength, oz/in [ppi] (N/m)**	46.4 [2.9] (508)	ASTM-D1000
Salt Fog Corrosion @ 168 hrs		
Surface Resistivity, milliohms*	<100	CHO-TP-57***
Through Resistivity, milliohms*	<1000	
Peel Strength, oz/in [ppi] (N/m)**	33.6 [2.1] (368)	ASTM-D1000
Taber Abrasion, 500 gramweight, CS-10 wheel @ 500 cycles		
Surface Resistivity, milliohms*	<175	-

N/A = Not Applicable
* All measurements of surface resistivity made at ambient temperature with tapes mounted on tinned copper substrate, except for taber abrasion where a plastic substrate was used.
** 90˚ peel strength tests were done on an Instron at 2 inches per minute with tapes on a 2024 aluminum substrate.
*** CHO-TP-57 available from Parker Chomerics on request.
**** Through resistivity measurements of double sided adhesive tapes done with tapes flanged between 2024 aluminum substrates.

NOTE: The table represents actual experimental test data taken according to Parker Chomerics internal test procedures. This data differs from Table 1 due to differences in test methods.

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