

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.

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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



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CHO-FAB™ – Product Information

Table 1 - Typical Properties

Typical Properties	Typical Values	Test Method
Foil Option	Nickel-Plated Silver	-
Fabric Type	Polyester Taffeta	-
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, °F (°C)	-40 to 250 (-40 to 121)	-
Electrical Resistance, ohms/in ² (ohms/cm ²)	<0.100 (<0.016)	MIL-STD-202C Method 303
Flammability Resistance	N/A	UL 94
Adhesion to Aluminum, oz/in [ppi] (N/m)	>40 [2.5] (438)	ASTM D1000
Outgassing, % TML (% CVCM)	Not Tested	ASTM E595
Shelf Life, months from date of shipment	24	-

Ordering Information

Refer to Tables 2 and 3. All CHO-FAB tapes are available in standard 18 yard (16.5 m) or 36 yard (32.9m) rolls or die-cut custom configurations. Replace XX with 18 or 36 for roll length in yards. See table 3 for the code for WWWW. Contact Parker Chomerics Applications Engineering for assistance with a custom configuration.

Table 2 - Part Numbering

Part Number	Foil Option	Adhesive Type	Maximum Roll Width
CFT-XX-101-WWWW	Nickel-Plated Silver Fabric	Electrically Conductive Acrylic	17 in (431.8 mm)

Table 3 - Length and Width Options

Length Replace XX	Width Replace WWWW
18 = 18 Yard (16.5 m) Roll	0050 = 0.5 in (12.7 mm) 0100 = 1.0 in (25.4 mm)
36 = 36 Yard (32.9 m) Roll	0200 = 2.0 in (50.8 mm) 0300 = 3.0 in (76.2 mm) 0400 = 4.0 in (103 mm)

CHO-FAB™ – Product Information

Table 4 – 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*	<100	
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	-

* 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.

NOTE: The above 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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