



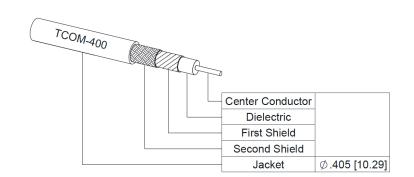
FMCA100107

Configuration

Connector 1: 4.3-10 Male
Connector 2: 4.3-10 Male
Cable Type: TCOM-400
Coax Flex Type: Flexible

Features

- · Max Frequency 6 GHz
- · Shielding Effectivity > 100 dB
- · 85% Phase Velocity
- Double Shielded
- · PE Jacket
- · 500 Mating Cycles



Applications

· General Purpose

· Laboratory Use

Low PIM Applications

Description

The 4.3-10 male to 4.3-10 male cable using TCOM-400 coax, part number FMCA100107, from Fairview Microwave is in-stock and ships same day. This Fairview 4.3-10 to 4.3-10 cable assembly has a male to male gender configuration with 50 ohm flexible TCOM-400 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. Our low PIM design offers excellent passive intermodulation performance. The FMCA100107 4.3-10 male to 4.3-10 male cable assembly operates to 6 GHz. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 100 dB.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other RF cable assembly value added services including connector orientation or clocking, heat shrink booting and labeling are also available. RF testing can also be performed to document the electrical performance of your cable assembly.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.4:1	
Velocity of Propagation		85		%
RF Shielding	100	d		
Group Delay		1.2 [3.94]		ns/ft [ns/m]
Passive Intermodulation		-155		dBc
IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz				
Capacitance		23.9 [78.41]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		1.39 [4.56]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		1.47 [4.82]		Ohms/1000ft [Ohms/Km]





FMCA100107

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			8,000	Vrms

Specifications by Frequency

peomodions by Tre	l l	Description	F1	F2	F3	F4	F5	Units	
Part Number	Length	Description	1.1	12	13	Г4	13	Ullits	Weight (lbs)
		Frequency	250	500	1000	2500	6000	MHz	
FMCA100107	Custom Lengths	Insertion Loss (Typ.)	0.021	0.03	0.044	0.072	0.117	dB/ft	
FIVICATUUTU7	Available	insertion Loss (Typ.)	0.07	0.1	0.15	0.24	0.39	dB/m	
FMCA100107-12	12 inch	Insertion Loss (Typ.)	0.52	0.52	0.54	0.57	0.61	dB	0.32
FMCA100107-24	24 inch	Insertion Loss (Typ.)	0.54	0.55	0.58	0.64	0.73	dB	0.4
FMCA100107-36	36 inch	Insertion Loss (Typ.)	0.56	0.58	0.63	0.71	0.85	dB	0.48
FMCA100107-48	48 inch	Insertion Loss (Typ.)	0.58	0.61	0.67	0.78	0.96	dB	0.56
FMCA100107-60	60 inch	Insertion Loss (Typ.)	0.6	0.64	0.71	0.85	1.08	dB	0.64

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1:0.245 dBLoss due to Connector 2:0.245 dBBase Weight:0.32 poundsAdditional Weight per Inch:0.00666 pounds

Mechanical Specifications

Cable Assembly

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.32 lbs [145.15 g]

Cable

Cable Type TCOM-400 Impedance 50 Ohms Inner Conductor Type Solid

Inner Conductor Material and Plating Copper Clad Aluminum

Dielectric Type PE (F)
Number of Shields 2

Shield Layer 1 Silver Plated Copper Braid
Shield Layer 2 Tinned Copper Braid

Jacket Material PE, Black

Jacket Diameter0.405 in [10.29 mm]One Time Minimum Bend Radius1 in [25.4 mm]

Repeated Minimum Bend Radius4 in [101.6 mm]Bending Moment0.5 lbs-ft [0.68 N-m]Flat Plate Crush40 lbs/in [0.71 Kg/mm]Tensile Strength160 lbs [72.57 Kg]





FMCA100107

Connectors

Description	Connector 1	Connector 2
Туре	4.3-10 Male	4.3-10 Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	500
Contact Material and Plating	Brass, Silver	Brass, Silver
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal

Environmental Specifications

Operating Range Temperature

-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

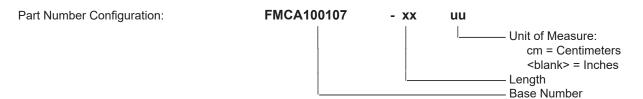




FMCA100107

Typical Performance Data

How to Order



Example: FMCA100107-12 = 12 inches long cable FMCA100107-100cm = 100 cm long cable

Low PIM 4.3-10 Male to 4.3-10 Male Cable TCOM-400 Coax With Times Microwave Components from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: Low PIM 4.3-10 Male to 4.3-10 Male Cable TCOM-400 Coax With Times Microwave Components FMCA100107

URL: https://www.fairviewmicrowave.com/low-pim-4.3-10-male-to-4.3-10-male-cable-tcom-400-coax-with-times-micro-wave-components-fmca100107-p.aspx

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