



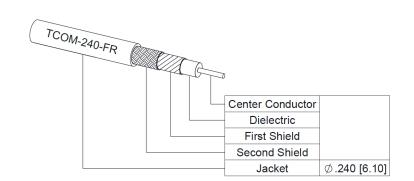
FMCA100151

Configuration

Connector 1: SMA Male
Connector 2: SMA Male
Cable Type: TCOM-240-FR
Coax Flex Type: Flexible

Features

- · Max Frequency 6 GHz
- Shielding Effectivity > 100 dB
- 84% Phase Velocity
- · Double Shielded
- · PE Jacket



Applications

· General Purpose

· Laboratory Use

Description

The SMA male to SMA male cable using TCOM-240-FR coax, part number FMCA100151, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA cable assembly has a male to male gender configuration with 50 ohm flexible TCOM-240-FR coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA100151 SMA male to SMA 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		84		%
RF Shielding	100			dB
Group Delay		1.21 [3.97]		ns/ft [ns/m]
Capacitance		24.2 [79.4]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		3.2 [10.5]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		2.06 [6.76]		Ohms/1000ft [Ohms/Km]





FMCA100151

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			5,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	6000	MHz	
FMCA100151	Custom Lengths	Insertion Loss (Typ.)	0.037	0.052	0.076	0.123	0.197	dB/ft	
TWEATOUTST	Available		0.13	0.18	0.25	0.41	0.65	dB/m	
FMCA100151-12	12 inch	Insertion Loss (Typ.)	0.24	0.26	0.28	0.33	0.4	dB	0.087
FMCA100151-24	24 inch	Insertion Loss (Typ.)	0.28	0.31	0.36	0.45	0.6	dB	0.132
FMCA100151-36	36 inch	Insertion Loss (Typ.)	0.32	0.36	0.43	0.57	0.8	dB	0.177
FMCA100151-48	48 inch	Insertion Loss (Typ.)	0.35	0.41	0.51	0.7	0.99	dB	0.222
FMCA100151-60	60 inch	Insertion Loss (Typ.)	0.39	0.46	0.58	0.82	1.19	dB	0.267

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 1:0.1 dBLoss due to Connector 2:0.1 dBBase Weight:0.087 poundsAdditional Weight per Inch:0.00375 pounds

Mechanical Specifications

Cable Assembly

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.087 lbs [39.46 g]

Cable

Cable Type TCOM-240-FR
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper
Dislocatic Type PE (E)

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 Diameter
 0.24 in [6.1 mm]

 One Time Minimum Bend Radius
 0.75 in [19.05 mm]

 Repeated Minimum Bend Radius
 2.5 in [63.5 mm]

 Bending Moment
 0.25 lbs-ft [0.34 N-m]

 Flat Plate Crush
 20 lbs/in [0.36 Kg/mm]

 Tensile Strength
 80 lbs [36.29 Kg]





FMCA100151

Connectors

Description	Connector 1	Connector 2		
Туре	SMA Male	SMA Male		
Specification	MIL-STD-348	MIL-STD-348		
Impedance	50 Ohms	50 Ohms		
Configuration	Straight	Straight		
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold		
Contact Plating Specification	ASTM B488	ASTM B488		
Dielectric Type	PTFE	PTFE		
Outer Conductor Material and Plating	Passivated Stainless Steel, Gold	Passivated Stainless Steel, Gold		
Body Material and Plating	Passivated Stainless Steel, Gold	Passivated Stainless Steel, Gold		
Body Plating Specification	SAE-AMS-2700	SAE-AMS-2700		
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel		
Coupling Nut Plating Specification	SAE-AMS-2700	SAE-AMS-2700		

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

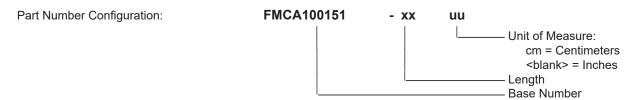




FMCA100151

Typical Performance Data

How to Order



Example: FMCA100151-12 = 12 inches long cable FMCA100151-100cm = 100 cm long cable

Fire Rated Low Loss SMA Male to SMA Male Cable TCOM-240-FR 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: Fire Rated Low Loss SMA Male to SMA Male Cable TCOM-240-FR Coax With Times Microwave Components FMCA100151

URL: https://www.fairviewmicrowave.com/fire-rated-low-loss-sma-male-to-sma-male-cable-tcom-240-fr-coax-with-times-microwave-components-fmca100151-p.aspx

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