

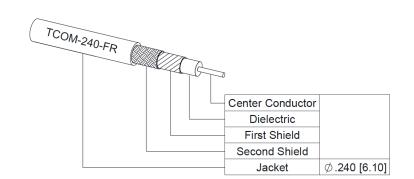
FMCA100154

Configuration

Connector 1: N Male
Connector 2: N 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 type N male to type N male cable using TCOM-240-FR coax, part number FMCA100154, from Fairview Microwave is in-stock and ships same day. This Fairview type N to type N 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 FMCA100154 type N male to type N 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

Minimum	Typical	Maximum	Units
DC		6	GHz
		1.4:1	
	84		%
100			dB
	1.21 [3.97]		ns/ft [ns/m]
	24.2 [79.4]		pF/ft [pF/m]
	0.06 [0.2]		uH/ft [uH/m]
	3.2 [10.5]		Ohms/1000ft [Ohms/Km]
	2.06 [6.76]		Ohms/1000ft [Ohms/Km]
	DC	DC 84 100 1.21 [3.97] 24.2 [79.4] 0.06 [0.2] 3.2 [10.5]	DC 6 1.4:1 84 100 1.21 [3.97] 24.2 [79.4] 0.06 [0.2] 3.2 [10.5]





FMCA100154

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			5,000	Vrms

Specifications by Frequency

Davit Nivershau	Length	Description	F1	F2	F3	F4	F5	Units	\\\\=:= =± (==\
Part Number		Frequency	250	500	1000	2500	6000	MHz	Weight (lbs)
FMCA100154	Custom Lengths	Insertion Loss (Typ.)	0.037	0.052	0.076	0.123	0.197	dB/ft	
TWCA100134	Available	111361 tio11 L033 (1 yp.)	0.13	0.18	0.25	0.41	0.65	dB/m	
FMCA100154-12	12 inch	Insertion Loss (Typ.)	0.24	0.26	0.28	0.33	0.4	dB	0.219
FMCA100154-24	24 inch	Insertion Loss (Typ.)	0.28	0.31	0.36	0.45	0.6	dB	0.264
FMCA100154-36	36 inch	Insertion Loss (Typ.)	0.32	0.36	0.43	0.57	0.8	dB	0.309
FMCA100154-48	48 inch	Insertion Loss (Typ.)	0.35	0.41	0.51	0.7	0.99	dB	0.354
FMCA100154-60	60 inch	Insertion Loss (Typ.)	0.39	0.46	0.58	0.82	1.19	dB	0.399

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 dB

Loss due to Connector 2: 0.1 dB

Base Weight: 0.219 pounds

Additional Weight per Inch: 0.00375 pounds

Mechanical Specifications

Cable Assembly

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.219 lbs [99.34 g]

Cable

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

Inner Conductor Material and Plating Copper
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]



FMCA100154

Connectors

Description	Connector 1	Connector 2
Туре	N Male	N Male
Specification	MIL-STD-348	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut 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:

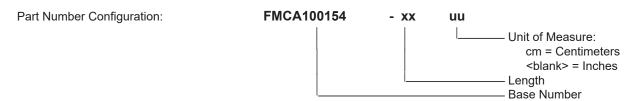




FMCA100154

Typical Performance Data

How to Order



Example: FMCA100154-12 = 12 inches long cable

FMCA100154-100cm = 100 cm long cable

Fire Rated Low Loss N Male to N 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 N Male to N Male Cable TCOM-240-FR Coax With Times Microwave Components FMCA100154

URL: https://www.fairviewmicrowave.com/fire-rated-low-loss-n-male-to-n-male-cable-tcom-240-fr-coax-with-times-microwave-components-fmca100154-p.aspx

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