



FMCA100175

Configuration

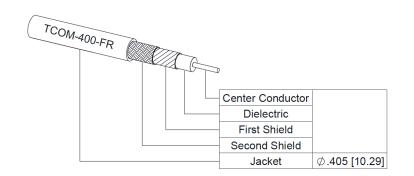
· Connector 1: TNC Male

· Connector 2: TNC Male Right Angle

Cable Type: TCOM-400-FRCoax Flex Type: Flexible

Features

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



Applications

· General Purpose

· Laboratory Use

Description

The TNC male to RA TNC male cable using TCOM-400-FR coax, part number FMCA100175, from Fairview Microwave is in-stock and ships same day. This Fairview TNC to TNC cable assembly has a male to male gender configuration with 50 ohm flexible TCOM-400-FR coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA100175 TNC male to TNC male cable assembly operates to 6 GHz. The right angle TNC interface on the TCOM-400-FR cable allows for easier connections in tight spaces. 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

;	6	CLIT
		GHz
	1.4:1	
85		%
)		dB
1.2 [3.94]		ns/ft [ns/m]
23.9 [78.41]		pF/ft [pF/m]
0.06 [0.2]		uH/ft [uH/m]
1.39 [4.56]		Ohms/1000ft [Ohms/Km]
1 47 [4 82]		Ohms/1000ft [Ohms/Km]
_	1.2 [3.94] 23.9 [78.41] 0.06 [0.2] 1.39 [4.56]	1.2 [3.94] 23.9 [78.41] 0.06 [0.2]





FMCA100175

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			8,000	Vrms

Specifications by Frequency

Part Number	Longth	Description	F1	F2	F3	F4	F5	Units	Moight (lbs)
Part Number	Length	Frequency	250	500	1000	2500	6000	MHz	Weight (lbs)
FMCA100175	Custom Lengths	Insertion Loss (Typ.)	0.021	0.03	0.044	0.072	0.117	dB/ft	
TWEAT00173	Available	111361 tio11 L033 (1 yp.)	0.07	0.1	0.15	0.24	0.39	dB/m	
FMCA100175-12	12 inch	Insertion Loss (Typ.)	0.48	0.48	0.5	0.53	0.57	dB	0.281
FMCA100175-24	24 inch	Insertion Loss (Typ.)	0.5	0.51	0.54	0.6	0.69	dB	0.361
FMCA100175-36	36 inch	Insertion Loss (Typ.)	0.52	0.54	0.59	0.67	0.81	dB	0.441
FMCA100175-48	48 inch	Insertion Loss (Typ.)	0.54	0.57	0.63	0.74	0.92	dB	0.521
FMCA100175-60	60 inch	Insertion Loss (Typ.)	0.56	0.6	0.67	0.81	1.04	dB	0.601

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: 0.25 dB

Loss due to Connector 2: 0.2 dB

Base Weight: 0.281 pounds

Additional Weight per Inch: 0.00666 pounds

Mechanical Specifications

Cable Assembly

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.281 lbs [127.46 g]

Cable

Cable Type TCOM-400-FR 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 Diameter 0.405 in [10.29 mm]

One Time Minimum Bend Radius

1 in [25.4 mm]

Repeated Minimum Bend Radius

4 in [101.6 mm]

Bending Moment

0.5 lbs-ft [0.68 N-m]

Flat Plate Crush

40 lbs/in [0.71 Kg/mm]

Tensile Strength 40 lbs/lf [0.71 kg/l]
Tensile Strength 160 lbs [72.57 kg]





FMCA100175

Connectors

Description	Connector 1	Connector 2
Туре	TNC Male	TNC Male Right Angle
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Mating Cycles	500	
Contact Material and Plating	Brass, Gold	Brass, Silver
Contact Plating Specification	50 μinch	
Dielectric Type		PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Silver
Body Plating Specification	80 μinch	
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Silver
Coupling Nut Plating Specification	80 μinch	

Environmental Specifications

Operating Range Temperature

-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

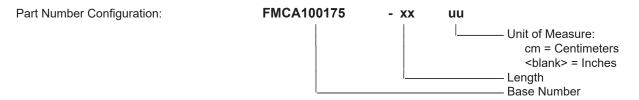




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Typical Performance Data

How to Order



Example: FMCA100175-12 = 12 inches long cable

FMCA100175-100cm = 100 cm long cable

Fire Rated Low Loss TNC Male to RA TNC Male Cable TCOM-400-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 TNC Male to RA TNC Male Cable TCOM-400-FR Coax With Times Microwave Components FMCA100175

URL: https://www.fairviewmicrowave.com/fire-rated-low-loss-tnc-male-to-ra-tnc-male-cable-tcom-400-fr-coax-with-times-microwave-components-fmca100175-p.aspx

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