

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



FMCA100176

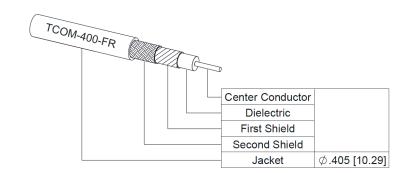
Configuration

Connector 1: TNC Male Right AngleConnector 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 RA TNC male to RA TNC male cable using TCOM-400-FR coax, part number FMCA100176, 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 FMCA100176 TNC male to TNC male cable assembly operates to 6 GHz. The right angle TNC interfaces on the TCOM-400-FR cable allow 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

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.4:1	
Velocity of Propagation		85		%
RF Shielding	100			dB
Group Delay		1.2 [3.94]		ns/ft [ns/m]
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]



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			8,000	Vrms

Specifications by Frequency

Deat Noveley	Levelle	Description	F1	F2	F3	F4	F5	Units	AAZ-1-III ZIII-A
Part Number	Length	Frequency	250	500	1000	2500	6000	MHz	Weight (lbs)
FMCA100176	Custom Lengths	Insertion Loss (Typ.)	0.021	0.03	0.044	0.072	0.117	dB/ft	
TWEATOOTY	Available	1113C1 (1011 2033 (1 yp.)	0.07	0.1	0.15	0.24	0.39	dB/m	
FMCA100176-12	12 inch	Insertion Loss (Typ.)	0.43	0.43	0.45	0.48	0.52	dB	0.3
FMCA100176-24	24 inch	Insertion Loss (Typ.)	0.45	0.46	0.49	0.55	0.64	dB	0.38
FMCA100176-36	36 inch	Insertion Loss (Typ.)	0.47	0.49	0.54	0.62	0.76	dB	0.46
FMCA100176-48	48 inch	Insertion Loss (Typ.)	0.49	0.52	0.58	0.69	0.87	dB	0.54
FMCA100176-60	60 inch	Insertion Loss (Typ.)	0.51	0.55	0.62	0.76	0.99	dB	0.62

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: 0.2 dB
Loss due to Connector 2: 0.2 dB
Base Weight: 0.3 pounds
Additional Weight per Inch: 0.00666 pounds

Mechanical Specifications

Cable Assembly

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.3 lbs [136.08 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 Diameter0.405 in [10.29 mm]One Time Minimum Bend Radius1 in [25.4 mm]

| Tin [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 | 160 lbs [72.57 Kg]



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Connectors

Description	Connector 1	Connector 2
Туре	TNC Male Right Angle	TNC Male Right Angle
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Right Angle
Contact Material and Plating	Brass, Silver	Brass, Silver
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Silver	Brass, Silver
Coupling Nut Material and Plating	Brass, Silver	Brass, Silver

Environmental Specifications

Operating Range Temperature

-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



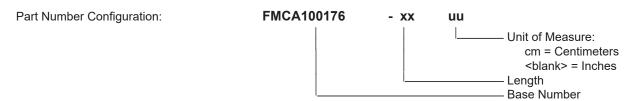
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Typical Performance Data

How to Order



Example: FMCA100176-12 = 12 inches long cable

FMCA100176-100cm = 100 cm long cable

Fire Rated Low Loss RA 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 RA TNC Male to RA TNC Male Cable TCOM-400-FR Coax With Times Microwave Components FMCA100176

URL: https://www.fairviewmicrowave.com/fire-rated-low-loss-ra-tnc-male-to-ra-tnc-male-cable-tcom-400-fr-coax-with-times-microwave-components-fmca100176-p.aspx

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FMCA100176 CAD Drawing

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