



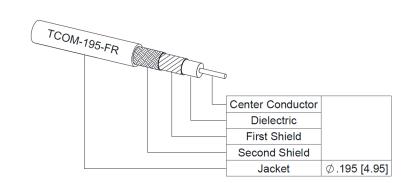
FMCA100141

Configuration

Connector 1: N Male
Connector 2: N Male
Cable Type: TCOM-195-FR
Coax Flex Type: Flexible

Features

- Max Frequency 8 GHz
- 80% Phase Velocity
- · Triple Shielded
- · PE Jacket
- · 500 Mating Cycles



Applications

· General Purpose

· Laboratory Use

Description

The type N male to type N male cable using TCOM-195-FR coax, part number FMCA100141, 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-195-FR coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA100141 type N male to type N male cable assembly operates to 8 GHz. The triple shielding of this Fairview cable assembly provides excellent shielding effectiveness.

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		8	GHz
VSWR			1.4:1	
Velocity of Propagation		80		%
Group Delay		1.27 [4.17]		ns/ft [ns/m]
Capacitance		25.4 [83.33]		pF/ft [pF/m]
Inductance		0.064 [0.21]		uH/ft [uH/m]
DC Resistance Inner Conductor		7.16 [23.49]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		3.42 [11.22]		Ohms/1000ft [Ohms/Km]
Jacket Spark			3,000	Vrms

Specifications by Frequency





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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Maight (lbs)
		Frequency	500	1000	2000	4000	8000	MHz	Weight (lbs)
FMCA100141	Custom Lengths	Insertion Loss (Typ.)	0.073	0.106	0.153	0.216	0.322	dB/ft	
FIVICA100141	Available		0.24	0.35	0.51	0.71	1.06	dB/m	
FMCA100141-12	12 inch	Insertion Loss (Typ.)	0.64	0.67	0.72	0.78	0.89	dB	0.203
FMCA100141-24	24 inch	Insertion Loss (Typ.)	0.71	0.78	0.87	1	1.21	dB	0.238
FMCA100141-36	36 inch	Insertion Loss (Typ.)	0.78	0.88	1.02	1.21	1.53	dB	0.273
FMCA100141-48	48 inch	Insertion Loss (Typ.)	0.86	0.99	1.18	1.43	1.85	dB	0.308
FMCA100141-60	60 inch	Insertion Loss (Typ.)	0.93	1.09	1.33	1.64	2.17	dB	0.343

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: 0.28 dB

Loss due to Connector 2: 0.28 dB

Base Weight: 0.203 pounds

Additional Weight per Inch: 0.00291 pounds

Mechanical Specifications

Cable Assembly

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.203 lbs [92.08 g]

Cable

Cable Type TCOM-195-FR
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper

Inner Conductor Material and Plating Copper
Dielectric Type PE (F)
Number of Shields 3

Shield Layer 1 Silver Plated Copper Braid
Shield Layer 2 Tinned Copper Braid
Jacket Material PE, Black

Jacket Diameter0.195 in [4.95 mm]One Time Minimum Bend Radius0.5 in [12.7 mm]Repeated Minimum Bend Radius2 in [50.8 mm]Bending Moment0.2 lbs-ft [0.27 N-m]Flat Plate Crush15 lbs/in [0.27 Kg/mm]





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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
Mating Cycles	500	500
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50 μin minimum	50 μin minimum
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Hex Size	13/16 Inch	13/16 Inch
Torque	9 in-lbs 1.02 Nm	9 in-lbs 1.02 Nm

Environmental Specifications

Operating Range Temperature

-40 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

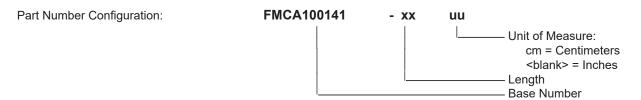




FMCA100141

Typical Performance Data

How to Order



Example: FMCA100141-12 = 12 inches long cable

FMCA100141-100cm = 100 cm long cable

Fire Rated Low Loss N Male to N Male Cable TCOM-195-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-195-FR Coax With Times Microwave Components FMCA100141

URL: https://www.fairviewmicrowave.com/fire-rated-low-loss-n-male-to-n-male-cable-tcom-195-fr-coax-with-times-mi-crowave-components-fmca100141-p.aspx

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