



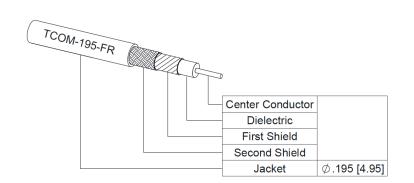
FMCA100148

Configuration

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

Features

- Max Frequency 6 GHz
- 80% Phase Velocity
- · Triple Shielded
- · PE Jacket



Applications

· General Purpose

· Laboratory Use

Description

The RA type N male to SMA male cable using TCOM-195-FR coax, part number FMCA100148, from Fairview Microwave is in-stock and ships same day. This Fairview type N to SMA 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 FMCA100148 type N male to SMA male cable assembly operates to 6 GHz. The right angle type N interface on the TCOM-195-FR cable allows for easier connections in tight spaces. 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		6	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





FMCA100148

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	\A/=:= =+ / ==\
		Frequency	250	500	1000	2500	6000	MHz	Weight (lbs)
FMCA100148	Custom Lengths	Insertion Loss (Typ.)	0.036	0.073	0.106	0.172	0.271	dB/ft	
FIVICATUU148	Available		0.12	0.24	0.35	0.57	0.89	dB/m	
FMCA100148-12	12 inch	Insertion Loss (Typ.)	0.34	0.38	0.41	0.48	0.58	dB	0.147
FMCA100148-24	24 inch	Insertion Loss (Typ.)	0.38	0.45	0.52	0.65	0.85	dB	0.182
FMCA100148-36	36 inch	Insertion Loss (Typ.)	0.41	0.52	0.62	0.82	1.12	dB	0.217
FMCA100148-48	48 inch	Insertion Loss (Typ.)	0.45	0.6	0.73	0.99	1.39	dB	0.252
FMCA100148-60	60 inch	Insertion Loss (Typ.)	0.48	0.67	0.83	1.16	1.66	dB	0.287

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: 0.1 dB
Base Weight: 0.147 pounds
Additional Weight per Inch: 0.00291 pounds

Mechanical Specifications

Cable Assembly

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.147 lbs [66.68 g]

Cable

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

Dielectric Type PE (F)
Number of Shields 3
Shield Layer 1 Silver P

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]





FMCA100148

Connectors

Description	Connector 1	Connector 2	
Туре	N Male Right Angle	SMA Male	
Impedance	50 Ohms	50 Ohms	
Configuration	Right Angle	Straight	
Mating Cycles	500		
Contact Material and Plating	Brass, Gold	Brass, Gold	
Contact Plating Specification	50μ in. minimum	ASTM B488	
Dielectric Type	Teflon	Teflon	
Body Material and Plating	Brass, Tri-Metal	Passivated Stainless Steel	
Body Plating Specification	80μ in. minimum		
Coupling Nut Material and Plating	Brass, Tri-Metal	Passivated Stainless Steel	
Coupling Nut Plating Specification	80μ in. minimum		
Hex Size	30	5/16 Inch	

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

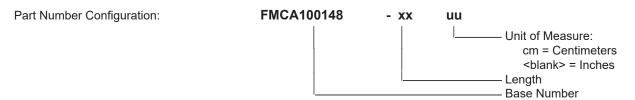




FMCA100148

Typical Performance Data

How to Order



Example: FMCA100148-12 = 12 inches long cable

FMCA100148-100cm = 100 cm long cable

Fire Rated Low Loss RA N Male to SMA 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 RA N Male to SMA Male Cable TCOM-195-FR Coax With Times Microwave Components FMCA100148

URL: https://www.fairviewmicrowave.com/fire-rated-low-loss-ra-n-male-to-sma-male-cable-tcom-195-fr-coax-with-times-microwave-components-fmca100148-p.aspx

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