

BNC Male to BNC Male Cable TCOM-195 Coax

FMCA21062

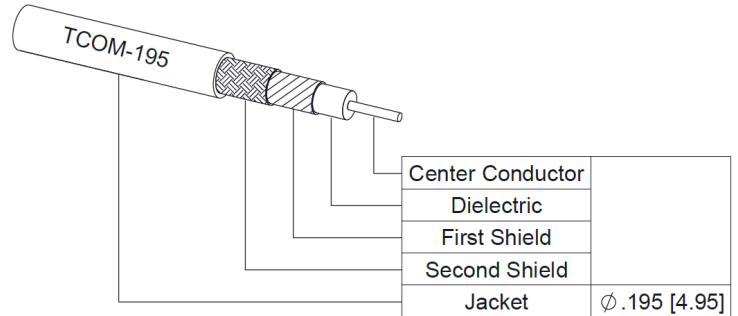


Configuration

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

Features

- Max Frequency 4 GHz
- 80% Phase Velocity
- Triple Shielded
- PE Jacket



Applications

- General Purpose
- Laboratory Use

Description

The BNC male to BNC male cable using TCOM-195 coax, part number FMCA21062, from Fairview Microwave is in-stock and ships same day. This Fairview BNC to BNC cable assembly has a male to male gender configuration with 50 ohm flexible TCOM-195 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA21062 BNC male to BNC male cable assembly operates to 4 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		4	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

BNC Male to BNC Male Cable TCOM-195 Coax

FMCA21062



Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	150	250	500	1000	4000	MHz	
FMCA21062	Custom Lengths Available	Insertion Loss (Typ.)	0.045	0.056	0.083	0.115	0.236	dB/ft	
			0.15	0.19	0.28	0.38	0.78	dB/m	
FMCA21062-6	6 inch	Insertion Loss (Typ.)	0.23	0.23	0.25	0.26	0.32	dB	0.0715
FMCA21062-9	9 inch	Insertion Loss (Typ.)	0.24	0.25	0.27	0.29	0.38	dB	0.082
FMCA21062-12	12 inch	Insertion Loss (Typ.)	0.25	0.26	0.29	0.32	0.44	dB	0.089
FMCA21062-18	18 inch	Insertion Loss (Typ.)	0.27	0.29	0.33	0.38	0.56	dB	0.106
FMCA21062-24	24 inch	Insertion Loss (Typ.)	0.29	0.32	0.37	0.43	0.68	dB	0.124

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:	0.089 pounds
Additional Weight per Inch:	0.0029 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.571 in [14.5 mm]
Weight	0.089 lbs [40.37 g]

Cable

Cable Type	TCOM-195
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 Plated Copper Braid
Shield Layer 2	Tinned Copper Braid over Aluminum Tape
Jacket Material	PE, Black
Jacket Diameter	0.195 in [4.95 mm]
One Time Minimum Bend Radius	0.5 in [12.7 mm]
Repeated Minimum Bend Radius	2 in [50.8 mm]
Bending Moment	0.2 lbs-ft [0.27 N-m]
Flat Plate Crush	15 lbs/in [0.27 Kg/mm]

BNC Male to BNC Male Cable TCOM-195 Coax

FMCA21062



Connectors

Description	Connector 1	Connector 2
Type	BNC Male	BNC Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 µin minimum	30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	90 µin minimum	90 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel

Environmental Specifications

Operating Range Temperature -40 to +85 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

BNC Male to BNC Male Cable TCOM-195 Coax



FMCA21062

Typical Performance Data

How to Order

Part Number Configuration: **FMCA21062** **- xx** **uu**

Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number

Example: FMCA21062-12 = 12 inches long cable
FMCA21062-100cm = 100 cm long cable

BNC Male to BNC Male Cable TCOM-195 Coax 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: [BNC Male to BNC Male Cable TCOM-195 Coax FMCA21062](#)

URL: <https://www.fairviewmicrowave.com/bnc-male-to-bnc-male-cable-tcom-195-coax-fmca21062-p.aspx>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.

FMCA21062 CAD Drawing
BNC Male to BNC Male Cable TCOM-195 Coax

