

Low Loss SMA Male to BNC Male Cable LMR-200 Coax

FMC00464

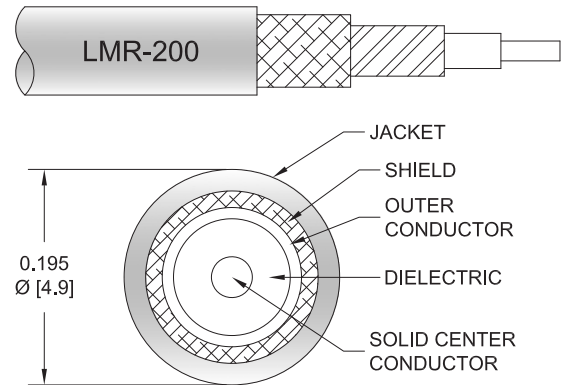


Configuration

- Connector 1: SMA Male
- Connector 2: BNC Male
- Cable Type: LMR-200
- Coax Flex Type: Flexible

Features

- Max Frequency 4 GHz
- Shielding Effectivity > 90 dB
- 83% Phase Velocity
- Double Shielded
- PE Jacket



Applications

- General Purpose
- Laboratory Use

Description

The SMA male to BNC male cable using LMR-200 coax, part number FMC00464, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to BNC cable assembly has a male to male gender configuration with 50 ohm flexible LMR-200 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00464 SMA male to BNC male cable assembly operates to 4 GHz. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 90 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		4	GHz
VSWR		1.4:1		
Velocity of Propagation		83		%
RF Shielding	90			dB
Group Delay		1.22 [4]		ns/ft [ns/m]
Capacitance		24.5 [80.38]		pF/ft [pF/m]
Inductance		0.061 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		5.36 [17.59]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		4.9 [16.08]		Ohms/1000ft [Ohms/Km]

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			3,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	100	250	500	1000	4000	MHz	
FMC00464	Custom Lengths Available	Insertion Loss (Typ.)	0.03	0.05	0.073	0.104	0.212	dB/ft	
			0.11	0.17	0.24	0.35	0.7	dB/m	
FMC00464-24	24 inch	Insertion Loss (Typ.)	0.27	0.3	0.35	0.41	0.63	dB	0.101
FMC00464-36	36 inch	Insertion Loss (Typ.)	0.3	0.35	0.42	0.52	0.84	dB	0.125
FMC00464-48	48 inch	Insertion Loss (Typ.)	0.33	0.4	0.5	0.62	1.05	dB	0.149
FMC00464-60	60 inch	Insertion Loss (Typ.)	0.36	0.45	0.57	0.72	1.26	dB	0.173
FMC00464-72	72 inch	Insertion Loss (Typ.)	0.39	0.5	0.64	0.83	1.48	dB	0.197

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:	0.077 pounds
Additional Weight per Inch:	0.002 pounds

Mechanical Specifications

Cable Assembly

Weight	0.077 lbs [34.93 g]
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Cable

Cable Type	LMR-200
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper
Dielectric Type	PE (F)
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper Braid
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]
Tensile Strength	40 lbs [18.14 Kg]

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male	BNC Male
Specification	MIL-STD-348A	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50 µin minimum	
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold	Brass, Tri-Metal
Body Plating Specification	3 µin minimum	
Coupling Nut Material and Plating	Brass, Gold	Brass, Tri-Metal
Coupling Nut Plating Specification	3 µin minimum	
Hex Size	5/16 inch	

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

Part Number Configuration:

FMC00464

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

Length
Base Number

Example: FMC00464-12 = 12 inches long cable
FMC00464-100cm = 100 cm long cable

Low Loss SMA Male to BNC Male Cable LMR-200 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: [Low Loss SMA Male to BNC Male Cable LMR-200 Coax FMC00464](https://www.fairviewmicrowave.com/low-loss-sma-male-to-bnc-male-cable-lmr-200-coax-fmc00464-p.aspx)

URL: <https://www.fairviewmicrowave.com/low-loss-sma-male-to-bnc-male-cable-lmr-200-coax-fmc00464-p.aspx>

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FMC00464 CAD Drawing
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