



FMCA100208

Configuration

Connector 1: BNC Male
Connector 2: TNC Male
Cable Type: LMR-240-UF
Coax Flex Type: Flexible

Features

- · Max Frequency 4 GHz
- · Shielding Effectivity > 90 dB
- · 84% Phase Velocity
- · Double Shielded
- TPE Jacket

Applications

General Purpose

· Laboratory Use

Description

The BNC male to TNC male cable using LMR-240-UF coax, part number FMCA100208, from Fairview Microwave is in-stock and ships same day. This Fairview BNC to TNC cable assembly has a male to male gender configuration with 50 ohm flexible LMR-240-UF coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA100208 BNC male to TNC 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		84		%
RF Shielding	90			dB
Group Delay		1.21 [3.97]		ns/ft [ns/m]
Capacitance		24.2 [79.4]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		4.28 [14.04]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		3.89 [12.76]		Ohms/1000ft [Ohms/Km]
Jacket Spark			5,000	Vrms

Specifications by Frequency





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Part Number	Length	Description	F1	F2	F2 F3 F4 F5		Units	Weight (lbs)	
Fait Number	Length	Frequency	100	250	500	1000	4000	MHz	weight (ms)
FMCA100208	Custom Lengths	Insertion Loss (Typ.)	0.029	0.046	0.066	0.096	0.195	dB/ft	
TWCATOUZUS	Available		0.1	0.16	0.22	0.32	0.64	dB/m	
FMCA100208-12	12 Inch	Insertion Loss (Typ.)	0.23	0.25	0.27	0.3	0.4	dB	0.09
FMCA100208-24	24 Inch	Insertion Loss (Typ.)	0.26	0.3	0.34	0.4	0.59	dB	0.123
FMCA100208-36	36 Inch	Insertion Loss (Typ.)	0.29	0.34	0.4	0.49	0.79	dB	0.155
FMCA100208-60	60 Inch	Insertion Loss (Typ.)	0.35	0.43	0.53	0.68	1.18	dB	0.219
FMCA100208-300	300 Inch	Insertion Loss (Typ.)	0.93	1.35	1.85	2.6	5.08	dB	0.859

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:

O.1 dB

Loss due to Connector 2:

Base Weight:

O.09 pounds

Additional Weight per Inch:

O.00184 pounds

Electrical Specification Notes: Values at 25°C, sea level.

Mechanical Specifications

Cable Assembly

Tensile Strength

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.09 lbs [40.82 g]

Cable

Cable Type LMR-240-UF Impedance 50 Ohms Inner Conductor Type Stranded Inner Conductor Material and Plating Copper Dislocation Type Projection Type Projection

Dielectric Type

Number of Shields

Shield Layer 1

Copper
PE (F)
Aluminum Tape

Shield Layer 2 Tinned Copper Braid
Jacket Material TPE, Black

 Jacket Diameter
 0.24 in [6.1 mm]

 One Time Minimum Bend Radius
 0.75 in [19.05 mm]

 Repeated Minimum Bend Radius
 2.5 in [63.5 mm]

 Bending Moment
 0.13 lbs-ft [0.18 N-m]

 Flat Plate Crush
 13 lbs/in [0.23 Kg/mm]

2

80 lbs [36.29 Kg]





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Connectors

BNC Male	TNC Male
50 Ohmo	
50 Offilis	50 Ohms
Straight	Straight
Brass, Gold	Brass, Gold
РОМ	POM
Brass, Nickel	Brass, Nickel
	Brass, Gold POM

Environmental Specifications

Operating Range Temperature

-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Values at 25°C, sea level.

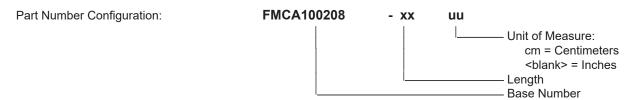




FMCA100208

Typical Performance Data

How to Order



Example: FMCA100208-12 = 12 inches long cable

FMCA100208-100cm = 100 cm long cable

Low Loss BNC Male to TNC Male Cable LMR-240-UF 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 BNC Male to TNC Male Cable LMR-240-UF Coax FMCA100208

URL: https://www.fairviewmicrowave.com/low-loss-bnc-male-to-tnc-male-cable-lmr-240-uf-coax-fmca100208-p.aspx

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