



FMCA10056

Configuration

Connector 1: BNC MaleConnector 2: UHF MaleCable Type: LMR-400Coax Flex Type: Flexible

Features

- · Max Frequency 3 GHz
- · Shielding Effectivity > 90 dB
- · 85% Phase Velocity
- · Double Shielded
- · PE Jacket
- 500 Mating Cycles

Applications

· General Purpose

· Laboratory Use

Description

The BNC male to UHF male cable using LMR-400 coax, part number FMCA10056, from Fairview Microwave is in-stock and ships same day. This Fairview BNC to UHF cable assembly has a male to male gender configuration with 50 ohm flexible LMR-400 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA10056 BNC male to UHF male cable assembly operates to 3 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

Minimum	Typical	Maximum	Units
DC		3	GHz
		1.4:1	
	85		%
90			dB
	1.2 [3.94]		ns/ft [ns/m]
	23.9 [78.41]		pF/ft [pF/m]
	0.06 [0.2]		uH/ft [uH/m]
	1.39 [4.56]		Ohms/1000ft [Ohms/Km]
	1.65 [5.41]		Ohms/1000ft [Ohms/Km]
	DC	DC 85 90 1.2 [3.94] 23.9 [78.41] 0.06 [0.2] 1.39 [4.56]	DC 3 1.4:1 85 90 1.2 [3.94] 23.9 [78.41] 0.06 [0.2] 1.39 [4.56]





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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			8,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
rait Nullibei		Frequency	100	250	500	1000	3000	MHz	weight (ms)
FMCA10056	Custom Lengths	Insertion Loss (Typ.)	0.01	0.02	0.03	0.04	0.07	dB/ft	
TWEATOOSO	Available		0.04	0.07	0.1	0.14	0.24	dB/m	
FMCA10056-12	12 Inch	Insertion Loss (Typ.)	0.44	0.44	0.45	0.47	0.5	dB	0.078
FMCA10056-24	24 Inch	Insertion Loss (Typ.)	0.45	0.46	0.48	0.51	0.57	dB	0.117
FMCA10056-36	36 Inch	Insertion Loss (Typ.)	0.46	0.48	0.51	0.55	0.64	dB	0.156
FMCA10056-48	48 Inch	Insertion Loss (Typ.)	0.47	0.5	0.54	0.59	0.72	dB	0.195
FMCA10056-60	60 Inch	Insertion Loss (Typ.)	0.48	0.52	0.56	0.63	0.79	dB	0.234

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 1:0.25 dBLoss due to Connector 2:0.17 dBBase Weight:0.078 poundsAdditional Weight per Inch:0.1325 pounds

Mechanical Specifications

Cable Assembly

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.078 lbs [35.38 g]

Cable

Cable TypeLMR-400Impedance50 OhmsInner Conductor TypeSolid

Inner Conductor Material and Plating Copper Clad Aluminum Dielectric Type PE (F)

Number of Shields 2
Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper Braid

Jacket MaterialPE, BlackJacket Diameter0.405 in [10.29 mm]

 One Time Minimum Bend Radius
 1 in [25.4 mm]

 Repeated Minimum Bend Radius
 4 in [101.6 mm]

 Bending Moment
 0.5 lbs-ft [0.68 N-m]

 Flat Plate Crush
 40 lbs/in [0.71 Kg/mm]

 Tensile Strength
 160 lbs [72.57 Kg]





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Connectors

Description	Connector 1	Connector 2	
Туре	BNC Male	UHF Male	
Impedance	50 Ohms	50 Ohms	
Configuration	Straight	Straight	
Mating Cycles	500	500	
Contact Material and Plating	Brass, Gold	Phosphor Bronze, Silver	
Contact Plating Specification	50 microns	200 μin minimum	
Dielectric Type	PTFE	PTFE	
Body Material and Plating	Brass, Tri-Metal	Brass, Tin/Nickel	
Body Plating Specification	80 microns	100 μin minimum	
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tin/Nickel	
Coupling Nut Plating Specification	80 microns	100 μin minimum	

Environmental Specifications

Operating Range Temperature

-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

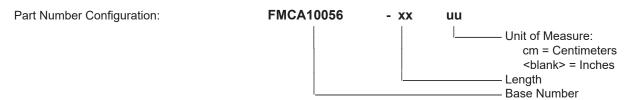




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Typical Performance Data

How to Order



Example: FMCA10056-12 = 12 inches long cable

FMCA10056-100cm = 100 cm long cable

Low Loss BNC Male to UHF Male Cable LMR-400 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: Low Loss BNC Male to UHF Male Cable LMR-400 Coax with Times Microwave Components FMCA10056

URL: https://www.fairviewmicrowave.com/low-loss-bnc-male-to-uhf-male-cable-lmr-400-coax-with-times-microwave-components-fmca10056-p.aspx

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