

BNC Male to BNC Male Cable LMR-400 Coax in 100 CM with Times Microwave components

The BNC male to BNC male 100 cm cable using LMR-400 coax, part number FMC00405-100CM, 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 LMR-400 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00405-100CM BNC male to BNC male cable assembly operates to 6 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	Min	Typ	Max	Units
Frequency Range	DC		6	GHz
VSWR			1.4:1	
Velocity of Propagation		85		%
RF Shielding	90			dB
Group Delay		1.2 [3.94]		ns/ft [ns/m]
Capacitance		23.9 [78.41]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor	1.39 [4.56]			$\Omega/1000\text{ft} [\Omega/\text{Km}]$
DC Resistance Outer Conductor	1.65 [5.41]			$\Omega/1000\text{ft} [\Omega/\text{Km}]$
Jacket Spark		8,000		Vrms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	6	GHz
Insertion Loss (Typ.)	0.26	0.29	0.33	0.42	0.56	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Length*	39.36 in [999.74 mm]
Diameter	0.55 in [13.97 mm]

Cable

Cable Type	LMR-400
Impedance	50 Ohms



Configuration:

- BNC Male
- BNC Male
- LMR-400

Features:

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- Double Shielded
- PE Jacket
- 500 Mating Cycles

Applications:

- General Purpose
- Laboratory Use
- Antenna Installations
- Land Mobile Radio & Other Communication Systems
- Cellular & Wi-Fi Systems

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Inner Conductor Type	Solid
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 Material	PE, Black
Jacket Diameter	0.405 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]

Connectors

Description	Connector 1	Connector 2
Type	BNC Male	BNC Male
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	500
Contact Material & Plating	Brass, Gold	Brass, Gold
Contact Plating Spec.	50 microns	50 microns
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Spec.	80 microns	80 microns
Coupling Nut Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Spec.	80 microns	80 microns

Mechanical Specification Notes:

*All cable assemblies have a length tolerance of 1.5% or $\pm 3/8$ ", whichever is greater.

Environmental Specifications
Temperature

Operating Range	-40 to +85 deg C
Storage Range	-70 to +85 deg C

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

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMC00405 - xx uu



Example: FMC00405-12 = 12 inches long cable
 FMC00405-100cm = 100 cm long cable

BNC Male to BNC Male Cable LMR-400 Coax in 100 CM with Times Microwave components from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

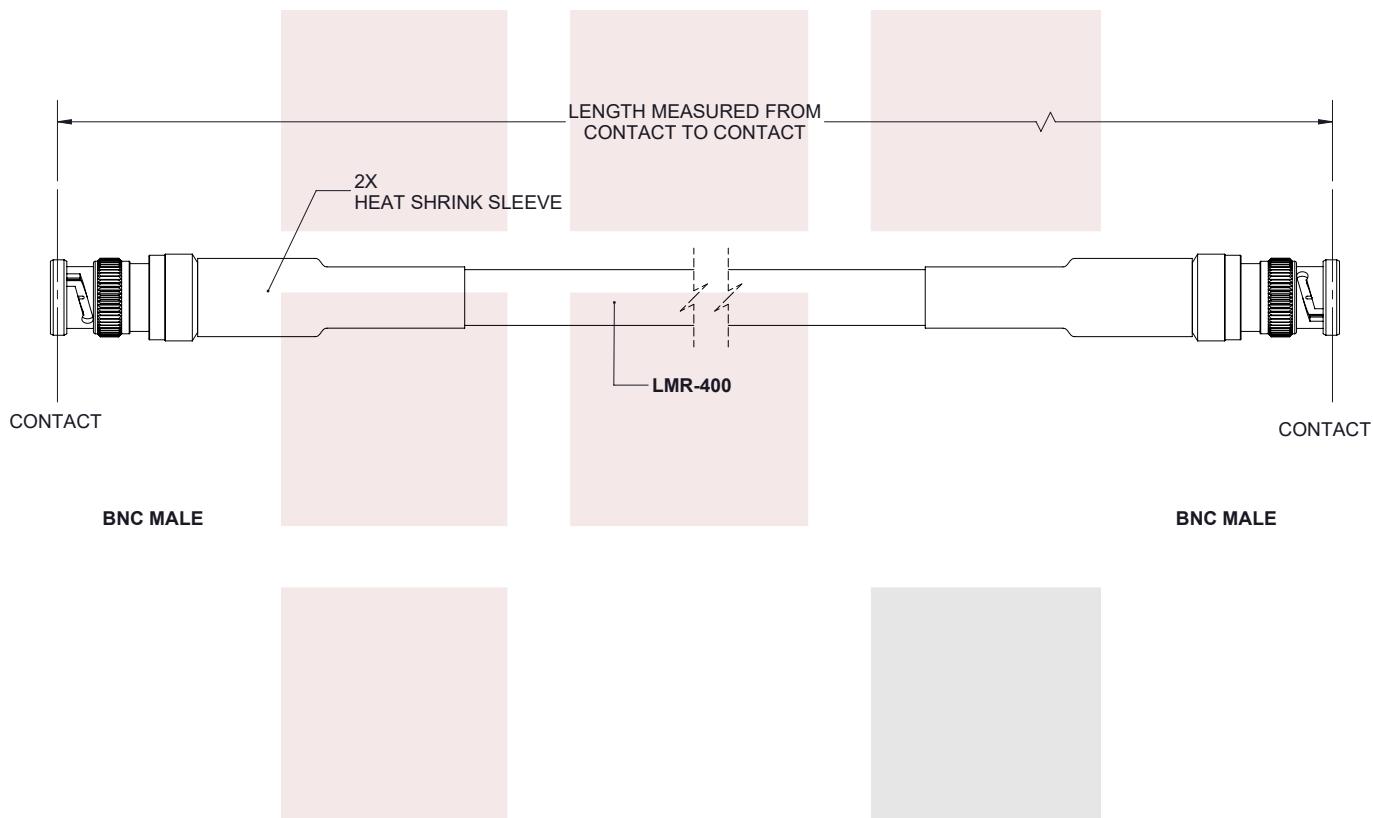
Click the following link to obtain additional part information: [BNC Male to BNC Male Cable LMR-400 Coax in 100 CM with Times Microwave components FMC00405-100CM](#)

URL: <https://www.fairviewmicrowave.com/bnc-male-bnc-male-cable-lmr400-coax-fmc00405-100cm-p.aspx>

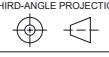
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	1/28/2020	S.ELLIS



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	TOLERANCES:	CABLE LENGTH (L) TOLERANCES:	
$X = \pm .2$ [5.08] $XX = \pm .02$ [.51] $XXX = \pm .005$ [.13]		$L \leq 12$ [305] = $+1$ [25] / -0 60 [1524] < $L \leq 120$ [3048] = $+4$ [102] / -0 120 [3048] < $L \leq 300$ [7620] = $+6$ [152] / -0 300 [7620] < $L = +5\%L$ / -0	
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.		SCALE	N/A
SIZE A	CAGE CODE 3FKR5	DRAWN BY K.DANG	ITEM NO. FMC00405
			REV A

T-Rev.D