



FMCA100290

Configuration

· Connector 1: N Female · Connector 2: N Female · Cable Type: LMR-600-UF · Coax Flex Type: Flexible

Features

- · Max Frequency 8 GHz
- · Shielding Effectivity > 90 dB
- · 87% Phase Velocity
- · Double Shielded
- TPE Jacket

Applications

· General Purpose

· Laboratory Use

Description

The type N female to type N female cable using LMR-600-UF coax, part number FMCA100290, from Fairview Microwave is in-stock and ships same day. This Fairview type N to type N cable assembly has a female to female gender configuration with 50 ohm flexible LMR-600-UF coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA100290 type N female to type N female cable assembly operates to 8 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		8	GHz
VSWR			1.4:1	
Velocity of Propagation		87		%
RF Shielding	90			dB
Group Delay		1.17 [3.84]		ns/ft [ns/m]
Capacitance		23.4 [76.77]		pF/ft [pF/m]
Inductance		0.058 [0.19]		uH/ft [uH/m]
DC Resistance Inner Conductor		0.43 [1.41]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		1.2 [3.94]		Ohms/1000ft [Ohms/Km]
Jacket Spark			8,000	Vrms

Specifications by Frequency

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Part Number	umber Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
Fait Nullibei		Frequency	500	1000	2000	4000	8000	MHz	weight (ms)
FMCA100290	Custom Lengths	Insertion Loss (Typ.)	0.022	0.032	0.047	0.062	0.087	dB/ft	
TWCA100290	Available	insertion Loss (Typ.)	0.08	0.11	0.16	0.21	0.29	dB/m	
FMCA100290-12	12 inch	Insertion Loss (Typ.)	0.23	0.24	0.25	0.27	0.29	dB	0.43
FMCA100290-24	24 inch	Insertion Loss (Typ.)	0.25	0.27	0.3	0.33	0.38	dB	0.607
FMCA100290-36	36 inch	Insertion Loss (Typ.)	0.27	0.3	0.35	0.39	0.47	dB	0.783
FMCA100290-60	60 inch	Insertion Loss (Typ.)	0.31	0.36	0.44	0.51	0.64	dB	1.135
FMCA100290-300	300 inch	Insertion Loss (Typ.)	0.75	1	1.38	1.75	2.38	dB	4.655

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: 0.43 pounds
Additional Weight per Inch: 0.01467 pounds

Mechanical Specifications

Cable Assembly

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.43 lbs [195.04 g]

Cable

Cable Type LMR-600-UF Impedance 50 Ohms Inner Conductor Type Stranded Inner Conductor Material and Plating Copper Dielectric Type Foam PE

Dielectric Type Number of Shields

Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper
Jacket Material TPE, Black

Jacket Diameter0.59 in [14.99 mm]One Time Minimum Bend Radius1.5 in [38.1 mm]Repeated Minimum Bend Radius6 in [152.4 mm]

 Bending Moment
 1.75 lbs-ft [2.37 N-m]

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

 Tensile Strength
 350 lbs [158.76 Kg]





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Connectors

Description	Connector 1	Connector 2		
Туре	N Female	N Female		
Impedance	50 Ohms	50 Ohms		
Configuration	Straight	Straight		
Contact Material and Plating	Phosphor Bronze, Gold	Phosphor Bronze, Gold		
Dielectric Type	PTFE	PTFE		
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal		

Environmental Specifications

Operating Range Temperature

-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

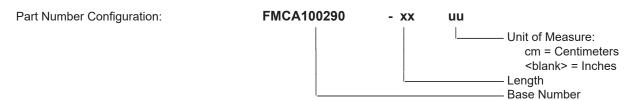




FMCA100290

Typical Performance Data

How to Order



Example: FMCA100290-12 = 12 inches long cable

FMCA100290-100cm = 100 cm long cable

Low Loss N Female to N Female Cable LMR-600-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 N Female to N Female Cable LMR-600-UF Coax FMCA100290

URL: https://www.fairviewmicrowave.com/low-loss-n-female-to-n-female-cable-Imr-600-uf-coax-fmca100290-p.aspx

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