



FMC00156

Configuration

Connector 1: N Male Right Angle
Connector 2: N Male Right Angle
Cable Type: LMR-400-UF

Cable Type: LiviR-400-Ur
 Coax Flex Type: Flexible

Features

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- · 85% Phase Velocity
- · Double Shielded
- TPE Jacket

Applications

General Purpose

· Laboratory Use

Description

The RA type N male to RA type N male cable using LMR-400-UF coax, part number FMC00156, from Fairview Microwave is in-stock and ships same day. This Fairview type N to type N cable assembly has a male to male gender configuration with 50 ohm flexible LMR-400-UF coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00156 type N male to type N male cable assembly operates to 5.8 GHz. The right angle type N interfaces on the LMR-400-UF cable allow for easier connections in tight spaces. 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		5.8	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		1.07 [3.51]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		1.65 [5.41]		Ohms/1000ft [Ohms/Km]





FMC00156

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)
		Frequency	250	500	1000	2500	5800	MHz	
FMC00156	Custom Lengths	Insertion Loss (Typ.)	0.02	0.03	0.049	0.081	0.13	dB/ft	
1101000130	Available	1113C1 (1011 L033 (19p.)	0.08	0.12	0.17	0.27	0.43	dB/m	
FMC00156-12	12 inch	Insertion Loss (Typ.)	0.43	0.44	0.45	0.49	0.53	dB	0.475
FMC00156-36	36 inch	Insertion Loss (Typ.)	0.47	0.51	0.55	0.65	0.79	dB	0.649
FMC00156-60	60 inch	Insertion Loss (Typ.)	0.52	0.57	0.65	0.81	1.05	dB	0.823
FMC00156-120	120 inch	Insertion Loss (Typ.)	0.63	0.74	0.89	1.21	1.7	dB	1.258
FMC00156-300	300 inch	Insertion Loss (Typ.)	0.98	1.25	1.63	2.43	3.65	dB	2.563

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: 0.2 dB Loss due to Connector 2: 0.2 dB Base Weight: 0.475 pounds Additional Weight per Inch: 0.00725 pounds

Mechanical Specifications

Cable Assembly

Weight 0.475 lbs [215.46 g]

Cable

Cable Type LMR-400-UF Impedance 50 Ohms Inner Conductor Type Stranded Inner Conductor Material and Plating Copper Dielectric Type PE(F)

Number of Shields Shield Layer 1 Aluminum Tape Shield Layer 2 **Tinned Copper Braid** TPE, Black Jacket Material

0.405 in [10.29 mm] Jacket Diameter One Time Minimum Bend Radius 1 in [25.4 mm] Repeated Minimum Bend Radius 4 in [101.6 mm]

Bending Moment 0.38 lbs-ft [0.52 N-m] Flat Plate Crush 20 lbs/in [0.36 Kg/mm] 160 lbs [72.57 Kg] Tensile Strength





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Connectors

Description	Connector 1	Connector 2
Туре	N Male Right Angle	N Male Right Angle
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Right Angle
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	50 μin minimum	50 μin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	78.74 μin minimum	78.74 µin minimum
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	78.74 µin minimum	78.74 µin minimum
Torque	44 in-lbs 4.97 Nm	44 in-lbs 4.97 Nm

Environmental Specifications

Operating Range Temperature

-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

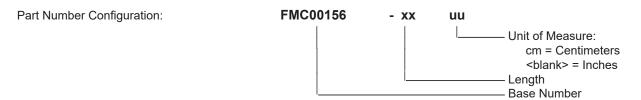




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Typical Performance Data

How to Order



Example: FMC00156-12 = 12 inches long cable

FMC00156-100cm = 100 cm long cable

Low Loss RA N Male to RA N Male Cable LMR-400-UF 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 RA N Male to RA N Male Cable LMR-400-UF Coax With Times Microwave Components FMC00156

URL: https://www.fairviewmicrowave.com/low-loss-ra-n-male-to-ra-n-male-cable-lmr-400-uf-coax-with-times-microwave-components-fmc00156-p.aspx

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