

Low Loss N Male to SMA Male Cable LMR-240-DB Coax

FMCA1935



Configuration

- Connector 1: N Male
- Connector 2: SMA Male
- Cable Type: LMR-240-DB
- Coax Flex Type: Flexible

Features

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Double Shielded
- PE Jacket

Applications

- General Purpose
- Laboratory Use

Description

The type N male to SMA male cable using LMR-240-DB coax, part number FMCA1935, from Fairview Microwave is in-stock and ships same day. This Fairview type N to SMA cable assembly has a male to male gender configuration with 50 ohm flexible LMR-240-DB coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA1935 type N male to SMA male cable assembly operates to 5.8 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		5.8	GHz
VSWR			1.4:1	
Velocity of Propagation		84		%
RF Shielding	90			dB
Capacitance		24.2 [79.4]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		3.2 [10.5]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		3.89 [12.76]		Ohms/1000ft [Ohms/Km]

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	5800	MHz	
FMCA1935	Custom Lengths Available	Insertion Loss (Typ.)	0.04	0.06	0.079	0.129	0.204	dB/ft	
			0.13	0.19	0.26	0.43	0.67	dB/m	
FMCA1935-12	12 inch	Insertion Loss (Typ.)	0.24	0.26	0.28	0.33	0.41	dB	0.133
FMCA1935-24	24 inch	Insertion Loss (Typ.)	0.28	0.31	0.36	0.46	0.61	dB	0.168
FMCA1935-36	36 inch	Insertion Loss (Typ.)	0.32	0.37	0.44	0.59	0.82	dB	0.202
FMCA1935-48	48 inch	Insertion Loss (Typ.)	0.36	0.42	0.52	0.72	1.02	dB	0.236
FMCA1935-60	60 inch	Insertion Loss (Typ.)	0.4	0.48	0.6	0.85	1.22	dB	0.27

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:	0.133 pounds
Additional Weight per Inch:	0.00284 pounds

Mechanical Specifications

Cable Assembly

Weight	0.133 lbs [60.33 g]
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Cable

Cable Type	LMR-240-DB
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper
Dielectric Type	PE (F)
Number of Shields	2
Shield Layer 1	Tinned Copper
Shield Layer 2	Aluminum Tape
Jacket Material	PE, Black
Jacket Diameter	0.24 in [6.1 mm]

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Connectors

Description	Connector 1	Connector 2
Type	N Male	SMA Male
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification		50 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Gold
Body Plating Specification		3 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Gold
Coupling Nut Plating Specification		3 µin minimum
Hex Size		5/16 inch

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

Part Number Configuration:

FMCA1935

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Unit of Measure:
cm = Centimeters
<blank> = Inches

Length
Base Number

Example: FMCA1935-12 = 12 inches long cable
FMCA1935-100cm = 100 cm long cable

Low Loss N Male to SMA Male Cable LMR-240-DB 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 Male to SMA Male Cable LMR-240-DB Coax FMCA1935](#)

URL: <https://www.fairviewmicrowave.com/low-loss-n-male-to-sma-male-cable-lmr-240-db-coax-fmca1935-p.aspx>

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FMCA1935 CAD Drawing
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