



## FMC00116

### Configuration

· Connector 1: SMA Male

Connector 2: N Male Right AngleCable Type: LMR-400-DB

Coax Flex Type: Flexible

#### **Features**

- · Max Frequency 6 GHz
- · Shielding Effectivity > 90 dB
- · 85% Phase Velocity
- · Double Shielded
- PF Jacket

### **Applications**

General Purpose

· Laboratory Use

## **Description**

The SMA male to RA type N male cable using LMR-400-DB coax, part number FMC00116, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to type N cable assembly has a male to male gender configuration with 50 ohm flexible LMR-400-DB coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00116 SMA male to type N male cable assembly operates to 6 GHz. The right angle type N interface on the LMR-400-DB cable allows 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**

Minimum	Typical	Maximum	Units
DC		6	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 6 1.4:1 85 90 1.2 [3.94] 23.9 [78.41] 0.06 [0.2] 1.39 [4.56]





# **FMC00116**

# **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)
Part Number	religili	Frequency	250	500	1000	2500	5800	MHz	weight (ms)
FMC00116	Custom Lengths	Insertion Loss (Typ.)	0.02	0.03	0.041	0.068	0.108	dB/ft	
1101000110	Available	insertion Loss (Typ.)	0.07	0.1	0.14	0.23	0.36	dB/m	
FMC00116-12	12 inch	Insertion Loss (Typ.)	0.32	0.33	0.35	0.37	0.41	dB	0.315
FMC00116-24	24 inch	Insertion Loss (Typ.)	0.34	0.36	0.39	0.44	0.52	dB	0.386
FMC00116-36	36 inch	Insertion Loss (Typ.)	0.36	0.39	0.43	0.51	0.63	dB	0.456
FMC00116-48	48 inch	Insertion Loss (Typ.)	0.38	0.42	0.47	0.58	0.74	dB	0.526
FMC00116-60	60 inch	Insertion Loss (Typ.)	0.4	0.44	0.51	0.64	0.84	dB	0.596

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 dBLoss due to Connector 2:0.2 dBBase Weight:0.315 poundsAdditional Weight per Inch:0.00584 pounds

## **Mechanical Specifications**

# Cable Assembly

Weight 0.315 lbs [142.88 g]

Cable

Cable TypeLMR-400-DBImpedance50 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 Material PE, Black

 Jacket Diameter
 0.405 in [10.29 mm]

 One Time Minimum Bend Radius
 1 in [25.4 mm]

 Described Minimum Bend Radius
 4 in [40.4 0 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]



# FMC00116

## **Connectors**

Description	Connector 1	Connector 2
Туре	SMA Male	N Male Right Angle
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	50µin Minimum	50µin Minimum
Dielectric Type	Teflon	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification		78.74 µin minimum
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification		78.74 µin minimum
Torque		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:





# **FMC00116**

# **Typical Performance Data**

# **How to Order**

Part Number Configuration:

FMC00116 - xx uu

Unit of Measure:
cm = Centimeters
<br/>
<br/>
<br/>
<br/>
Length
Base Number

Example: FMC00116-12 = 12 inches long cable

FMC00116-100cm = 100 cm long cable

Low Loss SMA Male to RA N Male Cable LMR-400-DB 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 SMA Male to RA N Male Cable LMR-400-DB Coax With Times Microwave Components FMC00116

URL: https://www.fairviewmicrowave.com/low-loss-sma-male-to-ra-n-male-cable-lmr-400-db-coax-with-times-micro-wave-components-fmc00116-p.aspx

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to impliment improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.

