



#### **FMCA10052**

#### Configuration

Connector 1: N Male Right AngleConnector 2: SMA Male Right Angle

Cable Type: LMR-240-UFCoax Flex Type: Flexible

#### **Features**

- · Max Frequency 6 GHz
- · Shielding Effectivity > 90 dB
- · 84% Phase Velocity
- · Double Shielded
- TPE Jacket

#### **Applications**

· General Purpose

· Laboratory Use

#### **Description**

The RA type N male to RA SMA male cable using LMR-240-UF coax, part number FMCA10052, 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-UF coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA10052 type N male to SMA male cable assembly operates to 6 GHz. The right angle type N and right angle SMA interfaces on the LMR-240-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**

Minimum	Typical	Maximum	Units
DC		6	GHz
		1.4:1	
	84		%
90			dB
	1.21 [3.97]		ns/ft [ns/m]
	24.2 [79.4]		pF/ft [pF/m]
	0.06 [0.2]		uH/ft [uH/m]
	4.28 [14.04]		Ohms/1000ft [Ohms/Km]
	3.89 [12.76]		Ohms/1000ft [Ohms/Km]
	DC	DC  84  90  1.21 [3.97]  24.2 [79.4]  0.06 [0.2]  4.28 [14.04]	DC 6 1.4:1  84  90  1.21 [3.97] 24.2 [79.4] 0.06 [0.2] 4.28 [14.04]



## **FMCA10052**

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Jacket Spark			5,000	Vrms

Specifications by Frequency

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Part Number Leng	Length	Length Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
Tare Namber	Length	Frequency	250	500	1000	2500	5800	MHz	Weight (183)
FMCA10052	Custom Lengths	Insertion Loss (Typ.)	0.046	0.066	0.095	0.155	0.238	dB/ft	
I WICA10032	Available		0.16	0.22	0.32	0.51	0.79	dB/m	
FMCA10052-12	12 Inch	Insertion Loss (Typ.)	0.5	0.52	0.55	0.61	0.69	dB	0.168
FMCA10052-24	24 Inch	Insertion Loss (Typ.)	0.55	0.59	0.64	0.76	0.93	dB	0.202
FMCA10052-36	36 Inch	Insertion Loss (Typ.)	0.59	0.65	0.74	0.92	1.17	dB	0.236
FMCA10052-60	60 Inch	Insertion Loss (Typ.)	0.68	0.78	0.93	1.23	1.64	dB	0.27
FMCA10052-300	300 Inch	Insertion Loss (Typ.)	1.6	2.1	2.83	4.33	6.4	dB	0.304

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: 0.25 dB Base Weight: 0.168 pounds Additional Weight per Inch: 0.11583 pounds

#### **Mechanical Specifications**

#### Cable Assembly

Width/Diameter 0.5 in [12.7 mm] Weight 0.168 lbs [76.2 g]

#### Cable

Cable Type LMR-240-UF Impedance 50 Ohms Inner Conductor Type Stranded Inner Conductor Material and Plating Copper Dielectric Type PE(F)

Number of Shields 2 Shield Layer 1 Aluminum Tape Shield Layer 2 **Tinned Copper Braid** 

TPE, Black Jacket Material Jacket Diameter 0.24 in [6.1 mm] One Time Minimum Bend Radius 0.75 in [19.05 mm] Repeated Minimum Bend Radius 2.5 in [63.5 mm] **Bending Moment** 0.13 lbs-ft [0.18 N-m]

13 lbs/in [0.23 Kg/mm] Flat Plate Crush Tensile Strength 80 lbs [36.29 Kg]



## FMCA10052

#### **Connectors**

Connector 1	Connector 2
N Male Right Angle	SMA Male Right Angle
50 Ohms	50 Ohms
Right Angle	Right Angle
Brass, Gold	Brass, Gold
50 μin minimum	50 μin minimum
PTFE	PTFE
Brass, Tri-Metal	Passivated Stainless Steel
80 µin minimum	
Brass, Tri-Metal	Passivated Stainless Steel
80 µin minimum	
	N Male Right Angle 50 Ohms Right Angle Brass, Gold 50 µin minimum PTFE Brass, Tri-Metal 80 µin minimum 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:

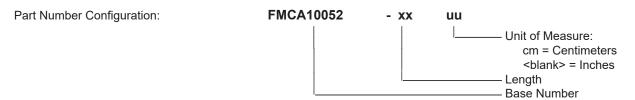




#### **FMCA10052**

#### **Typical Performance Data**

#### **How to Order**



Example: FMCA10052-12 = 12 inches long cable

FMCA10052-100cm = 100 cm long cable

Low Loss RA N Male to RA SMA Male Cable LMR-240-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 SMA Male Cable LMR-240-UF Coax with Times Microwave Components FMCA10052

URL: https://www.fairviewmicrowave.com/low-loss-ra-n-male-to-ra-sma-male-cable-lmr-240-uf-coax-with-times-micro-wave-components-fmca10052-p.aspx

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