

N Male Right Angle to SMA Female Cable in 50 CM Length Using RG223 Coax

The RA type N male to SMA female cable using RG223 coax, part number FMCA2746-50CM, from Fairview Microwave is in-stock and ships same day. This Fairview type N to SMA cable assembly has a male to female gender configuration with 50 ohm flexible RG223 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA2746-50CM type N male to SMA female cable assembly operates to 1 GHz. The right angle type N interface on the RG223 cable allows for easier connections in tight spaces. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness.

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	Min	Typ	Max	Units
Frequency Range	DC		1,000	MHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	50	100	250	500	1,000	MHz
Insertion Loss (Typ.)	0.34	0.37	0.41	0.45	0.52	dB/ft
	1.12	1.21	1.35	1.48	1.71	dB/m

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

Mechanical Specifications

Cable Assembly

Length* 19.68 in [499.87 mm]
 Weight 0.1589 lbs [72.08 g]

Cable

Cable Type RG223
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper, Silver
 Dielectric Type PE



Configuration:

- N Male Right Angle
- SMA Female
- RG223

Features:

- Max Frequency 1 GHz
- 66% Phase Velocity
- Double Shielded
- PVC Jacket

Applications:

- General Purpose
- Laboratory Use

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Number of Shields	2
Shield Layer 1	Silver Plated Copper Braid
Shield Layer 2	Silver Plated Copper Braid
Jacket Material	PVC, Black
Jacket Diameter	0.209 in [5.31 mm]
Repeated Minimum Bend Radius	1 in [25.4 mm]

Connectors

Description	Connector 1	Connector 2
Type	N Male	SMA Female
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	
Contact Material & Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Spec.	30 µin minimum	50 µin minimum
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Nickel	Brass, Nickel
Body Plating Spec.	100 µin minimum	100 µin minimum
Coupling Nut Material & Plating	Brass, Nickel	

Environmental Specifications
Temperature

Operating Range -40 to +80 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMCA2746 - xx uu

 cm = Centimeters
 <blank> = Inches

Length

 Example: FMCA2746-12 = 12 inches long cable
 FMCA2746-100cm = 100 cm long cable

N Male Right Angle to SMA Female Cable in 50 CM Length Using RG223 Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [N Male Right Angle to SMA Female Cable in 50 CM Length Using RG223 Coax FMCA2746-50CM](https://www.fairviewmicrowave.com/ra-n-male-to-sma-female-cable-rg223-coax-in-50-cm-fmca2746-50cm-p.aspx)

URL: <https://www.fairviewmicrowave.com/ra-n-male-to-sma-female-cable-rg223-coax-in-50-cm-fmca2746-50cm-p.aspx>

The information contained in 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 implement 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 any liability arising out of the use of any part or documentation.



REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	2/21/2022
		APPROVED AGANIVANI

WWW.FAIRVIEWMICROWAVE.COM
FAIRVIEW MICROWAVE P/N
(SEE NOTE 1)

N MALE
RIGHT ANGLE

SMA FEMALE

2X SHRINK TUBE

LENGTH MEASURED FROM
CONTACT TO CONTACT

RG223

THIRD ANGLE PROJECTION

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DESIGN IN THIS DOCUMENT
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SHEET 1 OF 1

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

X = +.2	(6.08)	FRACTIONS	L ≤ 12 [305] = +1 [25] / -0
XX = +.02	[.51]		12 [305] < L ≤ 60 [1524] = +2 [51] / -0
XXX = +.005	[.13]	ANGLES ± 1°	60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
			120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
			300 [7620] < L = +5%L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE: N/A

REV: A

ITEM NO: FMCA2746

DRAWN BY: MVEERAPPAN

CAGE CODE: 3FKR5

SIZE: A

TITLE

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NOTES:
1. CABLES 36" AND UNDER HAVE 1 LABEL CENTERED.
CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH END
6.0" FROM THE FRONT OF THE CONNECTOR.

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