

## FMCA2745-100CM DATA SHEET

# N Male to SMA Female Cable in 100 CM Length Using RG223 Coax

The type N male to SMA female cable using RG223 coax, part number FMCA2745-100CM, 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 FMCA2745-100CM type N male to SMA female cable assembly operates to 11 GHz. 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	Т	ур	Max	ι	Inits
Frequency Range	DC			11		GHz
VSWR				1.4:1		
Velocity of Propagation		(	66			%
Capacitance		30.8 [	101.05	5]	pF/f	t [pF/m]
Operating Voltage (AC)				500	\	/rms

## **Performance by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2.5	5	11	GHz
Insertion Loss (Typ.)	0.5	0.64	0.92	1.3	1.98	dB/ft
	1.64	2.1	3.02	4.27	6.5	dB/m

### Electrical Specification Notes:

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

## **Mechanical Specifications**

#### **Cable Assembly**

Length\* Weight

#### Cable

Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Shield Layer 1 39.37 in [100 cm] 0.1808 lbs [82.01 g]

RG223 50 Ohms Solid Copper, Silver PE 2 Silver Plated Copper Braid



## **Configuration:**

- N Male
- SMA Female
- RG223

## **Features:**

- Max Frequency 11 GHz
- 66% Phase Velocity
- Double Shielded
- PVC Jacket

## **Applications:**

- General Purpose
- Laboratory Use

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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	
Туре	N Male	SMA Female	
Specification	MIL-STD-348A	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms	
Contact Material & Plating	Brass, Gold	Beryllium Copper, Gold	
Contact Plating Spec.		50 µin minimum	
Dielectric Type	Teflon	PTFE	
Body Material & Plating	Brass, Tri-Metal	Brass, Nickel	
Body Plating Spec.		100 µin minimum	
Coupling Nut Material & Pla	ting Brass, Tri-Metal		
Hex Size	18 mm		
Torque	9 in-lbs 1.02 Nm	1	

## **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:

FMCA2745 - xx

uu

cm = Centimeters <blank> = Inches

Length

Example: FMCA2745-12 = 12 inches long cable FMCA2745-100cm = 100 cm long cable

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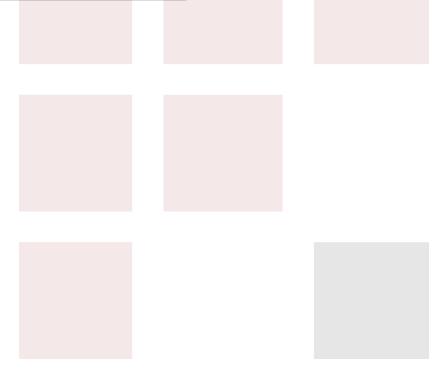


N Male to SMA Female Cable in 100 CM Length Using RG223 Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: N Male to SMA Female Cable in 100 CM Length Using RG223 Coax FMCA2745-100CM

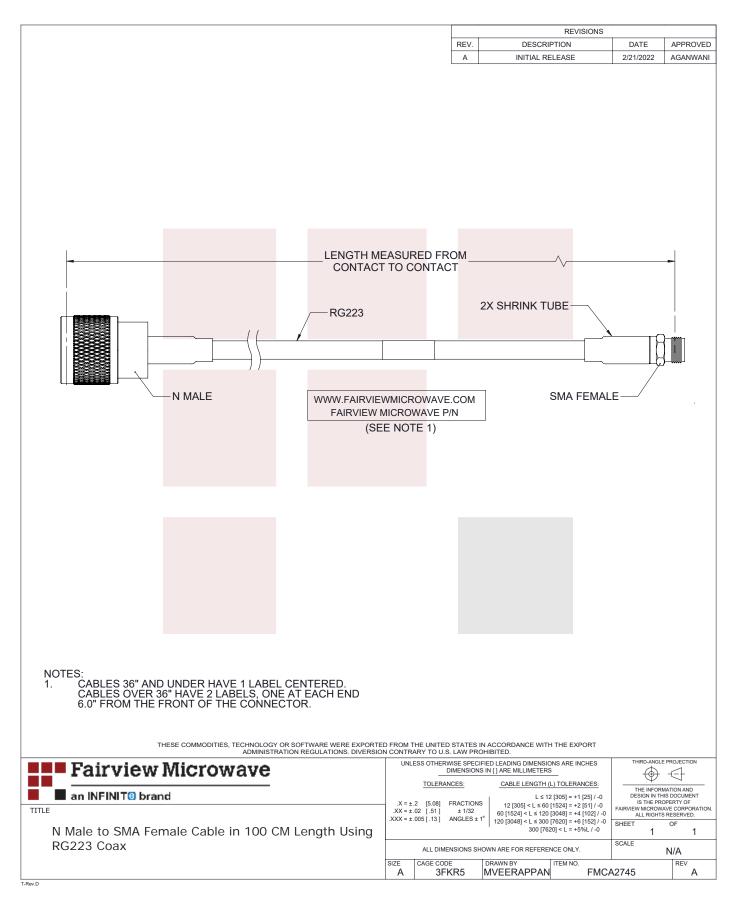
URL: https://www.fairviewmicrowave.com/n-male-to-sma-female-cable-rg223-coax-in-100-cm-and-rohs-fmca2745-100cm-p.aspx

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.



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