

# FMCA2755-150CM **DATA SHEET**

# N Female to SMA Female Bulkhead Cable in 150 CM Length Using RG223 Coax

The type N female to SMA female bulkhead cable using RG223 coax, part number FMCA2755-150CM, from Fairview Microwave is in-stock and ships same day. This Fairview type N to SMA cable assembly has a female 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 FMCA2755-150CM type N female to SMA female cable assembly operates to 5.8 GHz. Our RF cable assembly with SMA bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. 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	Тур	Мах	Units
Frequency Range	DC		5.8	GHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance		30.8 [ <mark>101.0</mark>	5]	pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

Performance by Frequency							
Description	F1	F2	F3	F4	F5	Units	
Frequency	0.25	0.5	1	2.5	5.8	GHz	
Insertion Loss (Typ.)	0.51	0.65	0.86	1.28	1.99	dB/ft	

2.13

**Electrical Specification Notes:** 

1.67

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.

2.82

### **Mechanical Specifications**

#### **Cable Assembly** Length\* Weight

#### Cable

Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type

59.06 in [150.01 cm] 0.1896 lbs [86 g]

4.2

6.53

RG223 50 Ohms Solid Copper, Silver ΡE



# **Configuration:**

- N Female
- SMA Female Bulkhead
- RG223

# **Features:**

- Max Frequency 5.8 GHz
- 66% Phase Velocity
- Double Shielded
- PVC Jacket

# **Applications:**

- General Purpose
- Laboratory Use

dB/m

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

Repeated Minimum Bend Radius

1 in [25.4 mm]

### Connectors

Description	Connector 1	Connector 2	
Туре	N Female	SMA Female	
Mount Method		Bulkhead	
Specification	MIL-STD-348A	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms	
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	

### **Environmental Specifications**

Temperature	
Operating Range	Э

-40 to +80 deg C

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

### **Plotted and Other Data**

Notes:

## **How to Order**

Part Number Configuration:

FMCA2755 - xx

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cm = Centimeters <blank> = Inches

Length

Example: FMCA2755-12 = 12 inches long cable FMCA2755-100cm = 100 cm long cable

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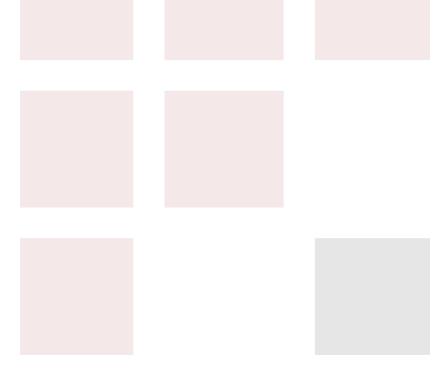


N Female to SMA Female Bulkhead Cable in 150 CM Length Using RG223 Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: N Female to SMA Female Bulkhead Cable in 150 CM Length Using RG223 Coax FMCA2755-150CM

URL: https://www.fairviewmicrowave.com/n-female-to-sma-female-bulkhead-cable-rg223-coax-in-150-cm-fmca2755-150cm-p.aspx

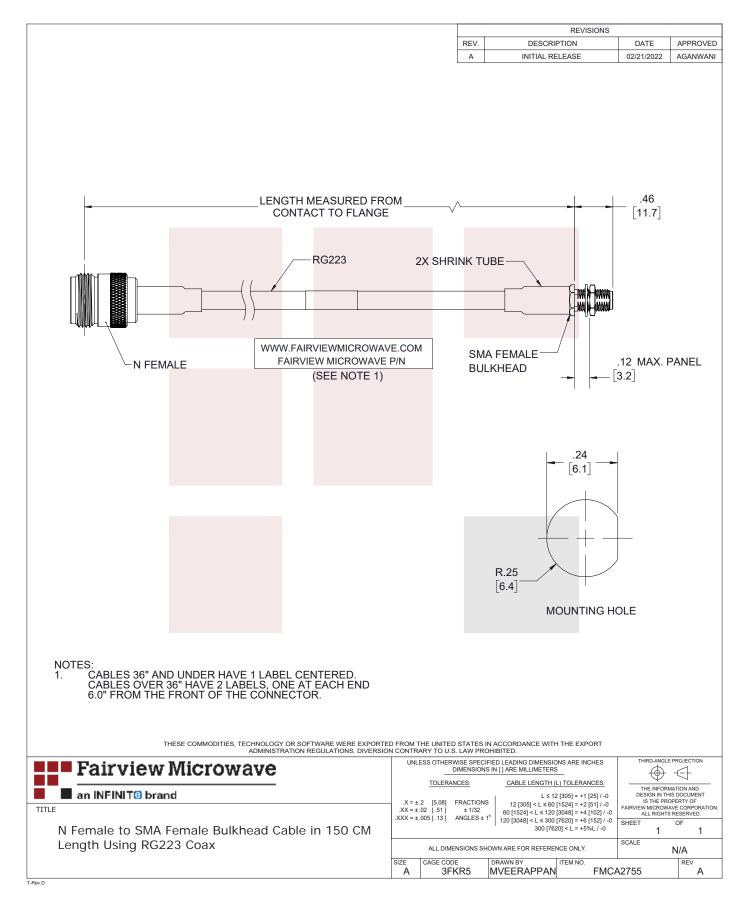
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to 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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