

## FMCA1965-48 DATA SHEET

# SMA Male to SMA Male Cable FM-F141 Coax in 48 Inch

The SMA male to SMA male 48 inch cable using FM-F141 coax, part number FMCA1965-48, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA cable assembly has a male to male gender configuration with 50 ohm flexible FM-F141 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA1965-48 SMA male to SMA male cable assembly operates to 18 GHz. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 110 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**

Description	Min	Т	ур Мах	Units
Frequency Range	DC		18	GHz
VSWR			1.5:1	
Velocity of Propagation		-	70	%
RF Shielding	110			dB
Capacitance		29.4	[96.46]	pF/ft [pF/m]

#### **Performance by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Max.)	0.64	0.84	1.04	1.52	2.52	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. Insertion Loss is estimated as  $0.1~\mathrm{dB}$  per connector.

## **Mechanical Specifications**

#### **Cable Assembly**

Length\* 48 in [121.92 cm]
Diameter 0.315 in [8 mm]

## Cable

Cable Type
Impedance
Inner Conductor Type
Inner Conductor Material and Plating
Dielectric Type
Number of Shields
Shield Layer 1
Shield Layer 2

FM-F141 50 Ohms Solid Copper Clad Steel, Silver PTFE

2

Silver Plated Copper Tape Silver Plated Copper Braid



## **Configuration:**

- SMA Male
- SMA Male
- FM-F141

### **Features:**

- Max Frequency 18 GHz
- Shielding Effectivity > 110 dB
- 70% Phase Velocity
- Double Shielded
- FEP Jacket

## **Applications:**

- General Purpose
- Laboratory Use

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Jacket Material FEP, Blue

Jacket Diameter 0.163 in [4.14 mm]

One Time Minimum Bend Radius 0.5 in [12.7 mm]

#### **Connectors**

Description		Connector 1			Connector 2				
Туре	/pe		SMA Male			SMA Male			
Impedance		50 Ohn		50 Ohms					
Body Material & Plating		Brass, Gold			Brass, Gold				
Coupling Nut Material & Plating		Passivated Stainless Steel			Passivated Stainless Steel				
Hex Size		5/16			5/16 in.				
Torque		8 in-lbs 0.	9 Nm		8 in-lbs 0.9 Nr	n			

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

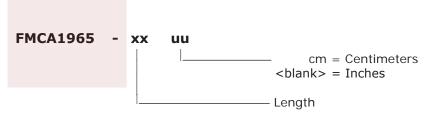
#### **Plotted and Other Data**

Notes:

Values at 25°C, sea level.

#### **How to Order**

Part Number Configuration:



Example: FMCA1965-12 = 12 inches long cable FMCA1965-100cm = 100 cm long cable

SMA Male to SMA Male Cab<mark>le FM-F141 Coax in 48 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.</mark>

Click the following link to obtain additional part information: SMA Male to SMA Male Cable FM-F141 Coax in 48 Inch FMCA1965-48

URL: https://www.fairviewmicrowave.com/sma-male-sma-male-cable-fm-f141-coax-fmca1965-48-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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