

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	Typ	Max	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 dB per connector.

Mechanical Specifications

Cable Assembly

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

Cable

Cable Type	FM-F141
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	2
Shield Layer 1	Silver Plated Copper Tape
Shield Layer 2	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
Type	SMA Male	SMA Male
Impedance	50 Ohms	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 Nm

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:

FMCA1965 - xx uu

cm = Centimeters
<blank> = Inches

Length

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

SMA Male to SMA Male Cable 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.

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.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	3/25/2020	S.ELLIS

2X HEAT SHRINK

1/4 HEX TYP

5/16 HEX TYP

SMA MALE

FM-F141

LENGTH MEASURED FROM CONTACT TO CONTACT

LABEL

FAREVIEW MICROWAVE
FMCA1965
(SEE NOTE 1)

SMA MALE

NOTES:

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

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ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

<div><div><div></div><div></div><div></div><div></div></div><div>Fairview Microwave™</div><div>an INFINITE brand</div></div> <div>TITLE</div> <div>SMA Male to SMA Male Cable FM-F141 Coax in 48 Inch</div>	<div>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS</div> <div><div>TOLERANCES:</div><div>.X = ±.2 [.508] .XX = ±.02 [.51] .XXX = ±.005 [.13]</div><div>FRACTIONS ± 1/32 ANGLES ± 1°</div></div> <div><div>CABLE LENGTH (L) TOLERANCES:</div><div>L ≤ 12 [305] = +1 [25] / -0 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 300 [7620] < L = +5%L / -0</div></div> <div>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</div> <div><div>SIZE A</div><div>CAGE CODE 3FKR5</div><div>DRAWN BY BPUCHASKI</div><div>ITEM NO. FMCA1965</div></div>	<div>THIRD-ANGLE PROJECTION</div> <div><div><div></div><div></div></div><div>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.</div></div> <div><div>SHEET 1</div><div>OF 1</div></div> <div><div>SCALE N/A</div></div> <div><div>REV A</div></div>
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