

Test 3.5mm Male to 3.5mm Male Cable FM160FLEX Coax in 48 Inch



FMC4141914-48

Configuration

Connector 1: 3.5mm Male
Connector 2: 3.5mm Male
Cable Type: FM-160FLEX
Coax Flex Type: Flexible

Features

- · Max Frequency 34 GHz
- Shielding Effectivity > 90 dB
- 78% Phase Velocity
- · Triple Shielded
- · ETFE Jacket

Applications

· General Purpose

· Test & Measurement

· Laboratory Use

Description

The 3.5mm male to 3.5mm male 48 inch cable using FM160FLEX coax, part number FMC4141914-48, from Fairview Microwave is in-stock and ships same day. This Fairview 3.5mm to 3.5mm cable assembly has a male to male gender configuration with 50 ohm flexible FM-160FLEX coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC4141914-48 3.5mm male to 3.5mm male cable assembly operates to 34 GHz. The triple shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 90 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	Minimum	Typical	Maximum	Units
Frequency Range	DC		34	GHz
VSWR			1.4:1	
Velocity of Propagation		78		%
RF Shielding	90			dB
Capacitance		26 [85.3]		pF/ft [pF/m]
Inductance		66 [216.54]		uH/ft [uH/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	2.5	5	10	18	34	GHz
Insertion Loss (Max.)	0.97	1.38	2.05	2.77	4.11	dB



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Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Power Handling (Max.)	750	450	320	200	160	Watts

Mechanical Specifications

Cable Assembly

 Length
 48 in [121.92 cm]

 Width/Diameter
 0.33 in [8.38 mm]

 Weight
 0.1525 lbs [69.17 g]

Cable

Cable Type FM-160FLEX Impedance 50 Ohms Inner Conductor Type Solid

Inner Conductor Material and Plating Copper, Silver Dielectric Type PTFE

Dielectric Type PT
Number of Shields 3
Shield Layer 1

Shield Layer 1 Silver Plated Copper Shield Layer 2 Aluminum Tape Shield Layer 3 Silver Plated Copper Jacket Material ETFE, Gray Jacket Diameter 0.16 in [4.06 mm]

One Time Minimum Bend Radius 0.8 in [20.32 mm] Typical Flex Cycles 10,000

Connectors

Description	Connector 1	Connector 2	
Туре	3.5mm Male	3.5mm Male	
Impedance	50 Ohms	50 Ohms	
Configuration	Straight	Straight	
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold	
Contact Plating Specification	ASTM-B488 50μ In. Minimum	ASTM-B488 50µ In. Minimum	
Dielectric Type	PCTFE	PCTFE	
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	
Body Plating Specification	SAE-AMS-2700	SAE-AMS-2700	
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	
Coupling Nut Plating Specification	SAE-AMS-2700	SAE-AMS-2700	
Hex Size	5/16 Inch	5/16 Inch	
Torque	8 in-lbs 0.9 Nm	8 in-lbs 0.9 Nm	

Environmental Specifications

Operating Range Temperature -45 to +165 deg C



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Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data

How to Order

Part Number Configuration:

FMC4141914 - xx uu

Unit of Measure:
cm = Centimeters

Length
Base Number

Example: FMC4141914-12 = 12 inches long cable FMC4141914-100cm = 100 cm long cable

Test 3.5mm Male to 3.5mm Male Cable FM160FLEX Coax in 48 Inch from Fairview Microwave is in-stock and available to ship sameday. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: Test 3.5mm Male to 3.5mm Male Cable FM160FLEX Coax in 48 Inch FMC4141914-48

URL: https://www.fairviewmicrowave.com/3.5mm-male-3.5mm-male-cable-fm160flex-coax-fmc4141914-48-p.aspx

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