

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

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	Min	Typ	Max	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]

Performance 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
Power Handling (Max.)	750	450	320	200	160	W

Mechanical Specifications

Cable Assembly

Length*	48 in [121.92 cm]
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
Number of Shields	3
Shield Layer 1	Silver Plated Copper
Shield Layer 2	Aluminum Tape
Shield Layer 3	Silver Plated Copper
Jacket Material	ETFE, Gray



Configuration:

- 3.5mm Male
- 3.5mm Male
- FM-160FLEX

Features:

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

Applications:

- General Purpose
- Test & Measurement
- Laboratory Use

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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
Type	3.5mm Male	3.5mm Male
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Spec.	ASTM-B488 50μ In. Min	ASTM-B488 50μ In. Minimum
Dielectric Type	PCTFE	PCTFE
Body Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel
Body Plating Spec.	SAE-AMS-2700	SAE-AMS-2700
Coupling Nut Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel
Coupling Nut Plating Spec.	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

Temperature

Operating Range -45 to +165 deg C

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

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMC4141914 - xx uu

cm = Centimeters
 <blank> = Inches
 Length

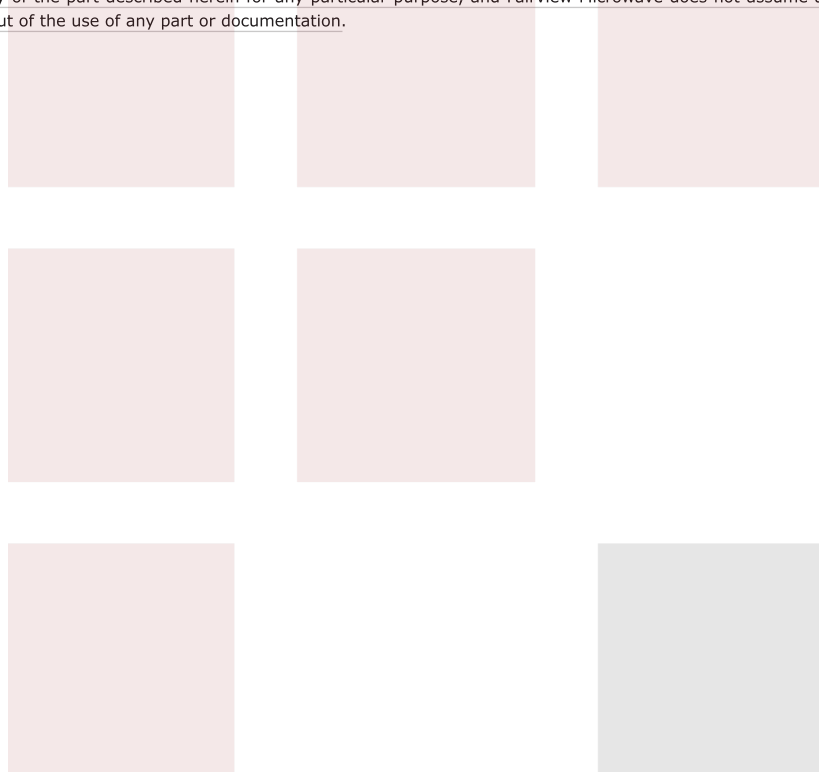
Example: FMC4141914-12 = 12 inches long cable
 FMC4141914-100cm = 100 cm long cable

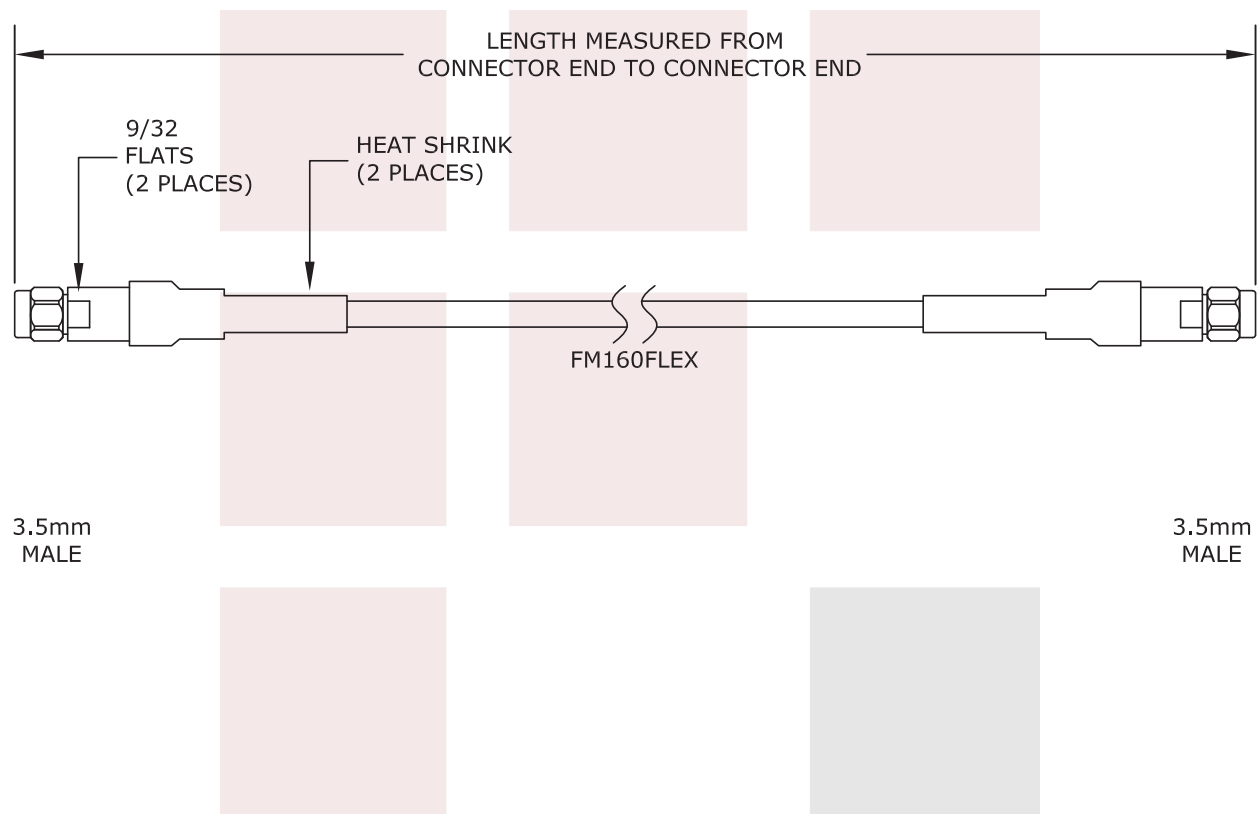
Test 3.5mm Male to 3.5mm Male Cable FM160FLEX Coax in 48 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [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>

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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TITLE Test 3.5mm Male to 3.5mm Male Cable FM160FLEX Coax in 48 Inch	DWG NO		CAGE CODE		
	FMC4141914		3FKR5		
	CAD FILE	070915	SHEET	SCALE	N/A
				SIZE	A
					2233