Fairview Microwave
an INFINITE brand

FMC1732315-06
DATA SHEET

RA MCX Male to SMA Male Cable RG-316 Coax in 6 Inch



The RA MCX male to SMA male 6 inch cable using RG-316 coax, part number FMC1732315-06, from Fairview Microwave is in-stock and ships same day. This Fairview MCX to SMA cable assembly has a male to male gender configuration with 50 ohm flexible RG-316 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC1732315-06 MCX male to SMA male cable assembly operates to 3 GHz. The right angle MCX interface on the RG-316 cable allows for easier connections in tight spaces.

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.

Configuration:

- MCX Male Right Angle
- SMA Male
- RG-316

Features:

- Max Frequency 3 GHz
- 70% Phase Velocity
- FEP Jacket

Applications:

- General Purpose
- Laboratory Use

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		3	GHz
VSWR			1.5:1	
Velocity of Propagation		70		%
Capacitance		32 [104.99]		pF/ft [pF/m]

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	3	GHz
Insertion Loss (Typ.)	0.38	0.42	0.49	0.56	0.59	dB

Electrical Specification Notes:
The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.3dB of connector loss.

Mechanical Specifications

Cable Assembly

Length*	6 in [152.4 mm]
Weight	0.016 lbs [7.26 g]

Cable

Cable Type	RG-316
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Number of Shields	1
Shield Layer 1	Silver Plated Copper Braid
Jacket Material	FEP, Tan
Jacket Diameter	0.098 in [2.49 mm]

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Connectors

Description	Connector 1	Connector 2
Type	MCX Male	SMA Male
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Gold	Brass, Gold
Dielectric Type	Teflon	Teflon
Body Material & Plating	Brass, Gold	Brass, Gold
Hex Size		5/16 inch
Torque		5 in-lbs 0.57 Nm

Mechanical Specification Notes:

*All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.

Environmental Specifications

Temperature

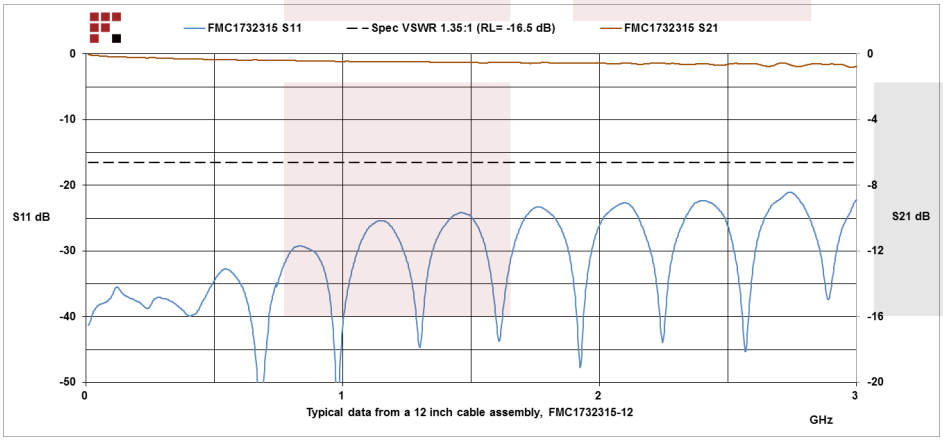
Operating Range -40 to +60 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data



How to Order

Part Number Configuration: **FMC1732315 - xx uu**

- uu: cm = Centimeters; <blank> = Inches
- xx: Length

Example: FMC1732315-12 = 12 inches long cable
FMC1732315-100cm = 100 cm long cable

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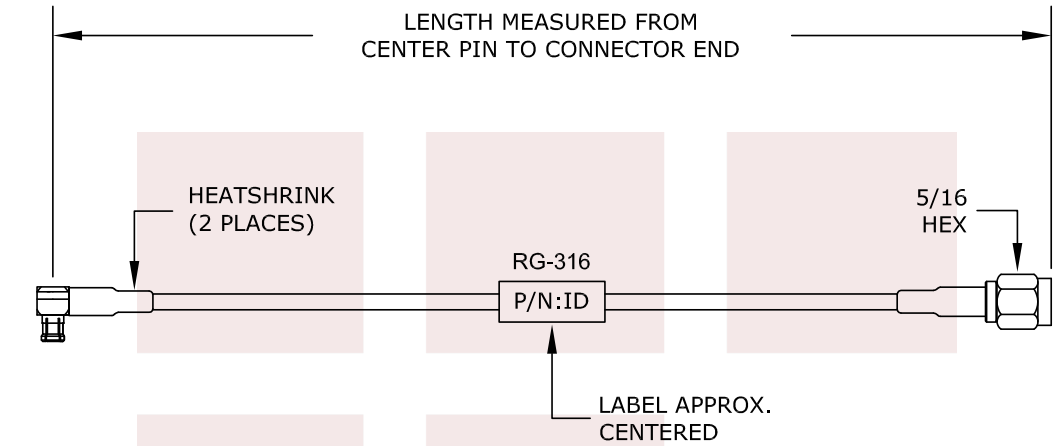
RA MCX Male to SMA Male Cable RG-316 Coax in 6 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: RA MCX Male to SMA Male Cable RG-316 Coax in 6 Inch FMC1732315-06

URL: https://www.fairviewmicrowave.com/ra-mcx-male-sma-male-cable-rg-316-coax-fmc1732315-06-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.



NOTE:
FOR LONGER CABLES (>10FT.) THERE ARE
TWO LABELS, ONE NEAR EACH END.

How To Order		Part # Ext.	Length In Inches	Part # Ext.	Length In Centimeters
Part Number Configuration FMC zzzzzzz - [xx] [uu] cm = Centimeters < Blank > = Inches Length	Examples FMC000-100 FMC000-100cm	-12	12"	-25cm	25cm
		-24	24"	-50cm	50cm
		-36	36"	-75cm	75cm
		-48	48"	-100cm	100cm
		-60	60"	-125cm	125cm
		-xx	Custom Length	-xxcm	Custom Length

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NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

TITLE
RA MCX Male to SMA Male Cable RG-316 Coax in 6 Inch

DWG NO	CAGE CODE
FMC1732315-12	3FKR5

CAD FILE 091914	SHEET	SCALE N/A	SIZE A	150

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