

RA MCX Male to SMA Male Cable RG-316 Coax in 12 Inch

The RA MCX male to SMA male 12 inch cable using RG-316 coax, part number FMC1732315-12, 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 FMC1732315-12 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.

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.) | 0.46 | 0.53 | 0.68 | 0.83 | 0.88 | 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* | 12 in [304.8 mm] |
| Weight | 0.022 lbs [9.98 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] |



Configuration:

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

Features:

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

Applications:

- General Purpose
- Laboratory Use

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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 $\pm 3/8"$, whichever is greater.

Environmental Specifications

Temperature

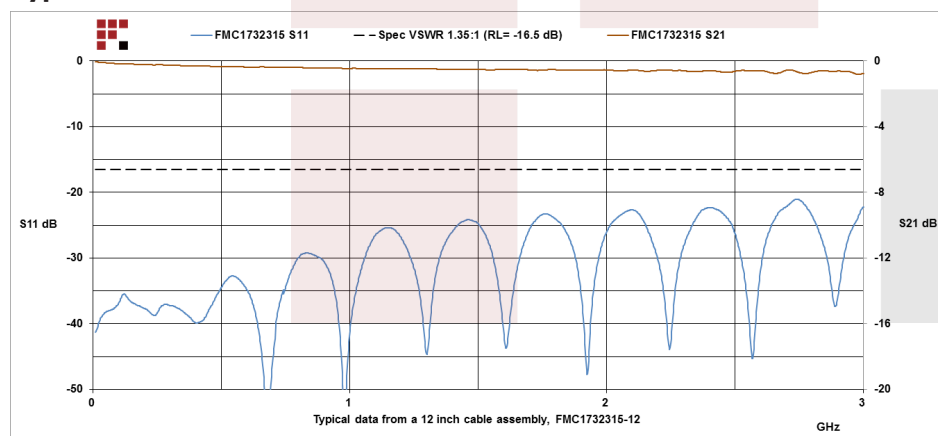
Operating Range -40 to +60 deg C

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

cm = Centimeters
<blank> = Inches
Length

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

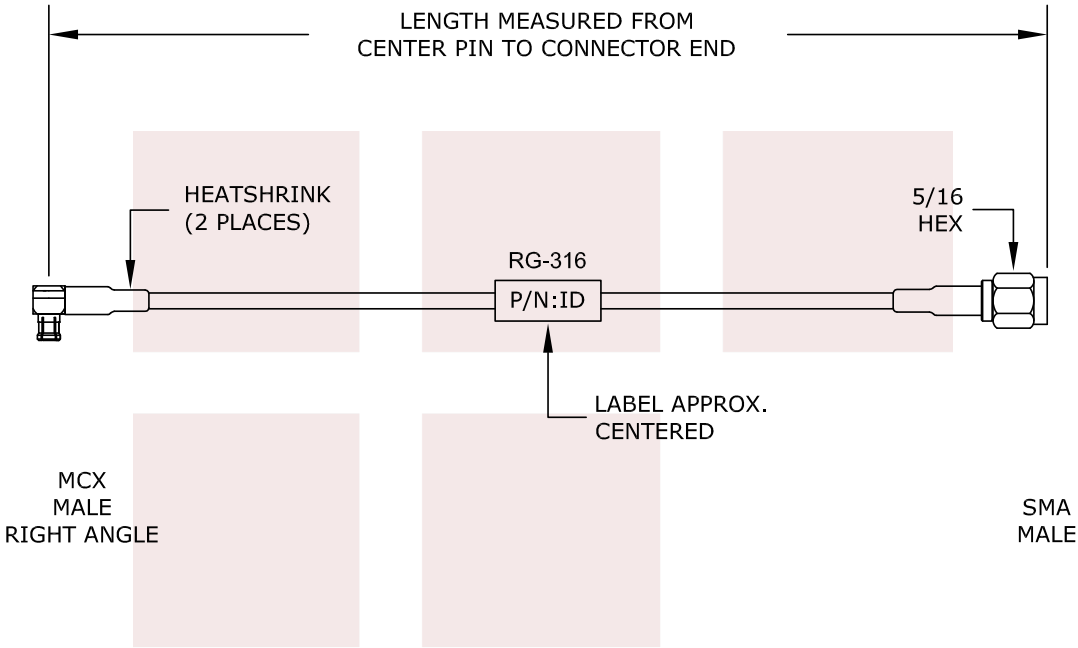
RA MCX Male to SMA Male Cable RG-316 Coax in 12 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [RA MCX Male to SMA Male Cable RG-316 Coax in 12 Inch FMC1732315-12](#)

URL: <https://www.fairviewmicrowave.com/ra-mcx-male-sma-male-cable-rg-316-coax-fmc1732315-12-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 |
|--|--|---|--|-------------|-----------------------|
| <u>Part Number Configuration</u> FMC zzzzzzz - <div>xx</div> <div>uu</div> <div>cm = Centimeters</div> <div>< Blank > = Inches</div> <div>Length</div> | | <u>Examples</u> 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 |
| <div>FAIRVIEW MICROWAVE INC.</div> <div>ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM</div> | | | <div>NOTES:</div> <div>1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.</div> <div>2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.</div> <div>3. DIMENSIONS ARE IN INCHES [mm].</div> | | |
| | | | | | |
| TITLE | | DWG NO | | CAGE CODE | |
| RA MCX Male to SMA Male Cable RG-316 Coax in 12 Inch | | FMC1732315-12 | | 3FKR5 | |
| | | CAD FILE | 091914 | SHEET | SCALE N/A |
| | | | | SIZE A | 150 |