

## Low Loss MMCX Plug to RA MCX Plug Cable RG174 Coax in 150 CM

The MMCX plug to RA MCX plug 150 cm cable using RG174 coax, part number FMC00305-150CM, from Fairview Microwave is in-stock and ships same day. This Fairview MMCX to MCX cable assembly has a plug to plug gender configuration with 50 ohm flexible RG174 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00305-150CM MMCX plug to MCX plug cable assembly operates to 1 GHz. The right angle MCX interface on the RG174 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    |          | 1,000 | MHz          |
| VSWR                    |       |          | 1.4:1 |              |
| Velocity of Propagation |       | 66       |       | %            |
| Capacitance             | 31.08 | [101.97] |       | pF/ft [pF/m] |

### Performance by Frequency

| Description           | F1   | F2   | F3   | F4   | F5    | Units |
|-----------------------|------|------|------|------|-------|-------|
| Frequency             | 50   | 100  | 250  | 500  | 1,000 | MHz   |
| Insertion Loss (Typ.) | 0.52 | 0.71 | 0.97 | 1.34 | 1.87  | dB    |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

### Mechanical Specifications

#### Cable Assembly

Length\* 59.05 in [149.99 cm]

#### Cable

Cable Type RG174  
 Impedance 50 Ohms  
 Inner Conductor Type Stranded  
 Inner Conductor Material and Plating Copper Clad Steel  
 Dielectric Type PE  
 Number of Shields 1  
 Shield Layer 1 Tinned Copper Braid  
 Jacket Material PVC, Black  
 Jacket Diameter 0.11 in [2.79 mm]



### Configuration:

- MMCX Plug
- MCX Plug Right Angle
- RG174

### Features:

- Max Frequency 1 GHz
- 66% Phase Velocity
- PVC Jacket

### Applications:

- General Purpose
- Laboratory Use

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## Connectors

| Description                | Connector 1    | Connector 2    |
|----------------------------|----------------|----------------|
| Type                       | MMCX Plug      | MCX Plug       |
| Specification              | BS EN 122340   | MIL-STD-348A   |
| Impedance                  | 50 Ohms        | 50 Ohms        |
| Contact Material & Plating | Brass, Gold    | Brass, Gold    |
| Contact Plating Spec.      | 30 µin minimum | 30 µin minimum |
| Dielectric Type            | PTFE           | PTFE           |
| Body Material & Plating    | Brass, Gold    | Brass, Gold    |
| Body Plating Spec.         | 3 µin minimum  | 3 µin minimum  |

## Environmental Specifications

### Temperature

Operating Range -40 to +80 deg C

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

## Plotted and Other Data

Notes:

## How to Order

Part Number Configuration:

**FMC00305 - xx uu**

cm = Centimeters

<blank> = Inches

Length

Example: FMC00305-12 = 12 inches long cable  
 FMC00305-100cm = 100 cm long cable

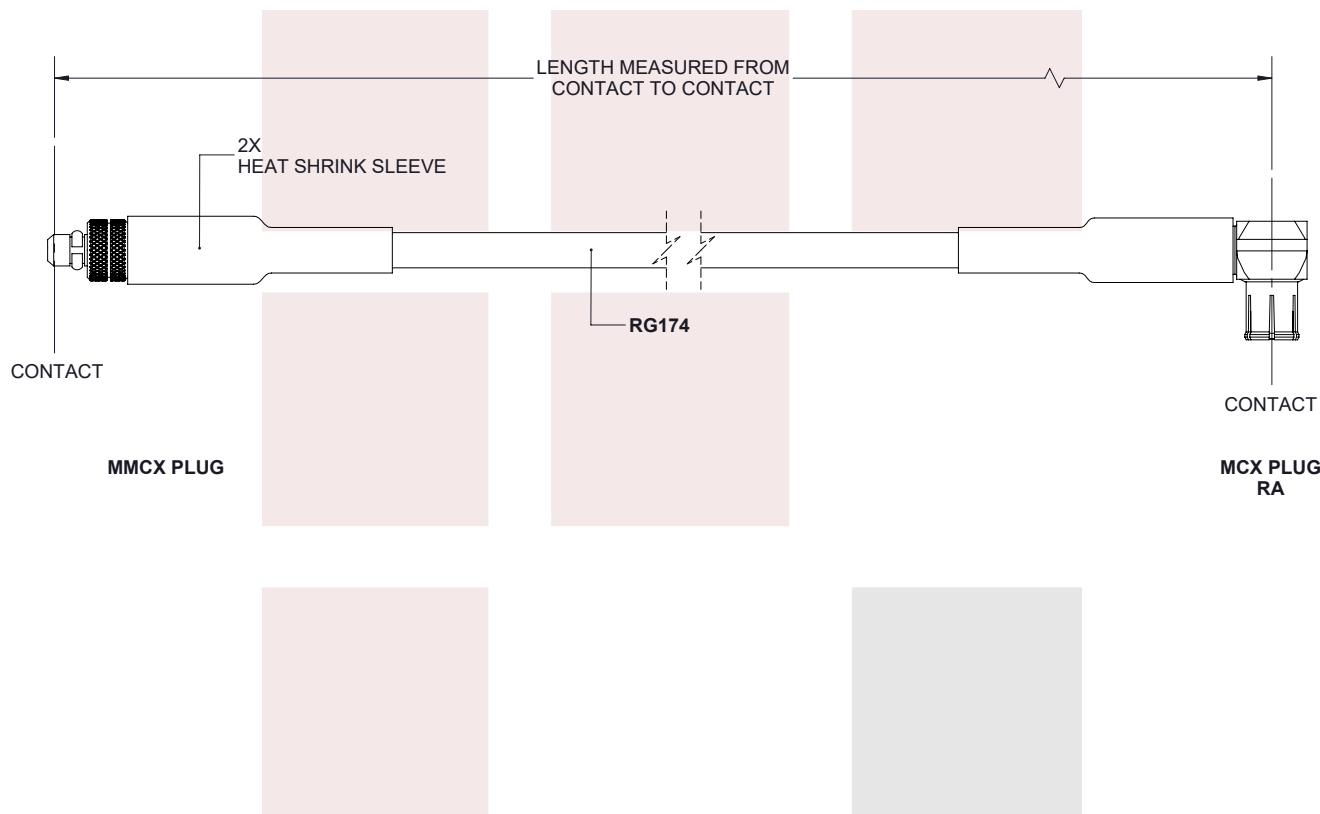
Low Loss MMCX Plug to RA MCX Plug Cable RG174 Coax in 150 CM from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Low Loss MMCX Plug to RA MCX Plug Cable RG174 Coax in 150 CM FMC00305-150CM](#)

URL: <https://www.fairviewmicrowave.com/low-loss-mmcx-plug-ra-mcx-plug-cable-rg174-coax-fmc00305-150cm-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 | 2/24/2020 | S.ELLIS  |



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|-------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------|--|
| <p><b>Fairview Microwave</b><br/>an INFINITE brand</p>                  |  | <p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES<br/>DIMENSIONS IN [ ] ARE MILLIMETERS</p> |  | <p>THIRD-ANGLE PROJECTION</p>                                                                                              |  |
| <p>TITLE</p>                                                            |  | <p>TOLERANCES:</p>                                                                                    |  | <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.</p> |  |
| <p>Low Loss MMCX Plug to RA MCX Plug Cable RG174<br/>Coax in 150 CM</p> |  | <p>CABLE LENGTH (L) TOLERANCES:</p>                                                                   |  | <p>SHEET 1 OF 1</p>                                                                                                        |  |
| <p>SIZE A</p>                                                           |  | <p>CAGE CODE 3FKR5</p>                                                                                |  | <p>SCALE N/A</p>                                                                                                           |  |
| <p>DRAWN BY K.DANG</p>                                                  |  | <p>ITEM NO. FMC00305</p>                                                                              |  | <p>REV A</p>                                                                                                               |  |

T-Rev.D