

## MCX Plug Right Angle Connector Crimp/Solder Attachment for RG58, RG303, RG141, LMR-195, .195 inch



### FMCN1847

#### Configuration

- MCX Plug Connector
- CECC 22220
- 50 Ohms
- Right Angle Body Geometry
- Connector Interface Types: RG58, RG303, RG141, LMR-195, .195 inch

#### Features

- Operating Frequency of 3 GHz Max.
- Good VSWR of 1.63:1
- Gold Plated Brass Contact
- 30 μin minimum contact plating

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

RA MCX Plug Standard Connector Crimp/Solder Attachment for RG58, RG303, RG141, LMR-195 and .195 inch Cable, part number FMCN1847, from Fairview Microwave is in-stock and ships same day. This MCX plug connector operates up to a maximum frequency of 3 GHz and offers good VSWR of 1.63:1. Its right angle body geometry facilitates connections in tight spaces.

Fairview's RA MCX plug connector FMCN1847 datasheet specifications and outline drawing are shown in this PDF below. Our extensive offering of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. From providing an I/O for a board design to creating a custom cable assembly configuration, Fairview Microwave has a connector solution to meet your needs. Fairview Microwave also has the expertise to build your custom cable assemblies for you and ship them same-day.

#### Electrical Specifications

| Description            | Minimum | Typical | Maximum | Units |
|------------------------|---------|---------|---------|-------|
| Frequency Range        | DC      |         | 3       | GHz   |
| VSWR                   |         |         | 1.63:1  |       |
| Operating Voltage (AC) |         |         | 335     | Vrms  |
| Impedance              |         | 50      |         | Ohms  |

#### Performance by Frequency

| Description     | F1      | F2     | F3 | F4 | F5 | Units |
|-----------------|---------|--------|----|----|----|-------|
| Frequency Range | DC to 1 | 1 to 3 |    |    |    | GHz   |
| VSWR, Max       | 1.5:1   | 1.63:1 |    |    |    |       |

#### Mechanical Specifications

##### Size

|        |                    |
|--------|--------------------|
| Length | 0.65 in [16.51 mm] |
| Width  | 0.25 in [6.35 mm]  |
| Height | 0.44 in [11.18 mm] |
| Weight | 0.011 lbs [4.99 g] |

MCX Plug Right Angle Connector Crimp/Solder Attachment  
for RG58, RG303, RG141, LMR-195, .195 inch



**FMCN1847**

**Material Specifications**

| Description  | Material | Plating                   |
|--------------|----------|---------------------------|
| Contact      | Brass    | Gold<br>30 µin minimum    |
| Insulation   | PTFE     |                           |
| Body         | Brass    | Nickel<br>100 µin minimum |
| Crimp Sleeve | Brass    | Nickel                    |

**Environmental Specifications**

|                                       |                   |
|---------------------------------------|-------------------|
| <b>Temperature</b><br>Operating Range | -55 to +155 deg C |
|---------------------------------------|-------------------|

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

**Plotted and Other Data**

Notes:

MCX Plug Right Angle Connector Crimp/Solder Attachment for RG58, RG303, RG141, LMR-195, .195 inch from Fairview Microwave is in-stock and available to ship same-day. 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.

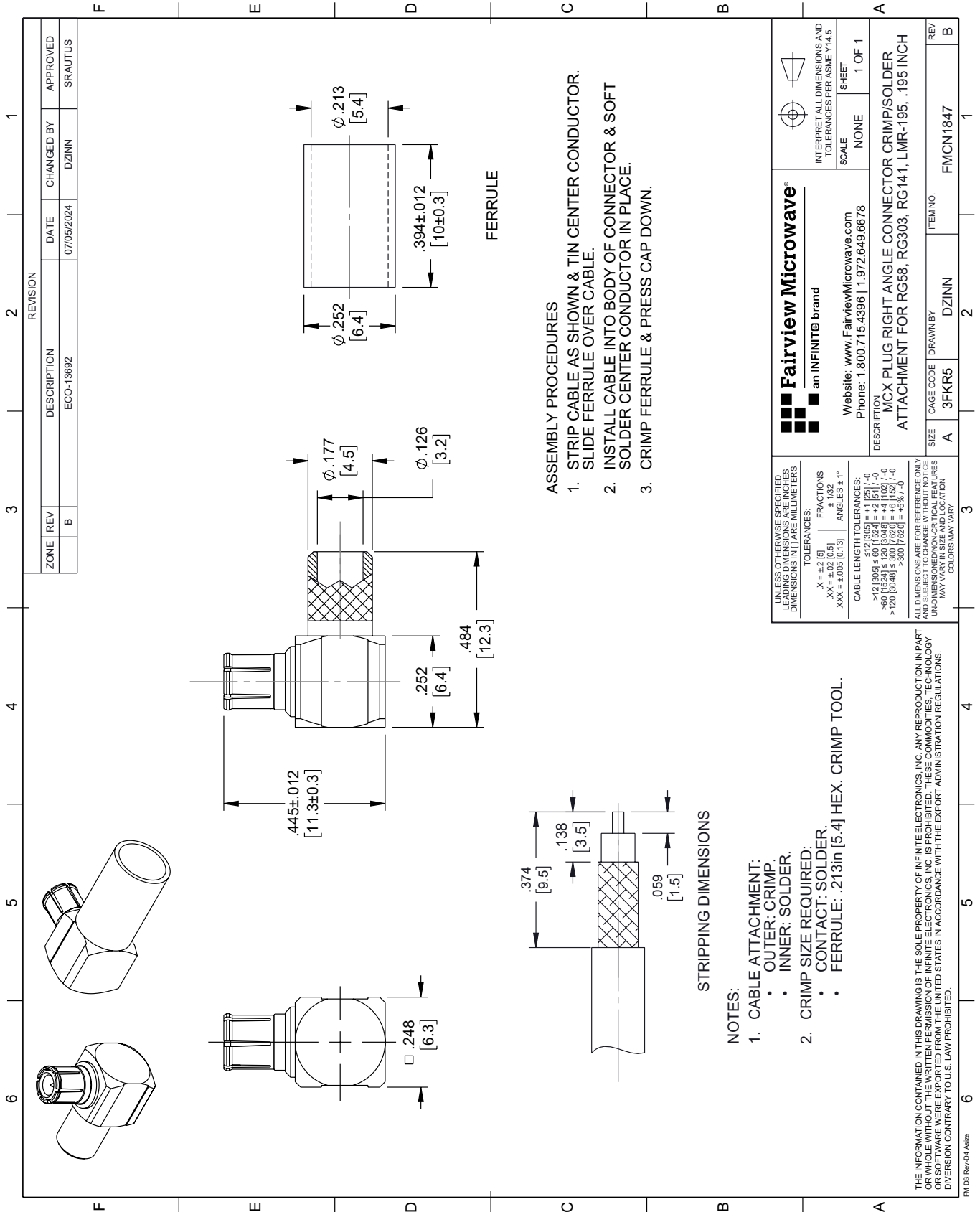
For additional information on this product, please click the following link: [MCX Plug Right Angle Connector Crimp/Solder Attachment for RG58, RG303, RG141, LMR-195, .195 inch FMCN1847](#)

URL: <https://www.fairviewmicrowave.com/mcx-plug-rg58-rg303-rg141-lmr-195-.195-connector-fmcn1847-p.aspx>

The information contained within 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 liability arising out of the use of any part or document.

# FMCN1847 CAD Drawing

MCX Plug Right Angle Connector Crimp/Solder Attachment for RG58, RG303, RG141, LMR-195, .195 inch



| REVISION |     | DATE        | CHANGED BY | APPROVED |         |
|----------|-----|-------------|------------|----------|---------|
| ZONE     | REV | DESCRIPTION | ECO-13692  | DZINN    | SRAUTUS |
|          | B   |             |            |          |         |

- ASSEMBLY PROCEDURES**
1. STRIP CABLE AS SHOWN & TIN CENTER CONDUCTOR. SLIDE FERRULE OVER CABLE.
  2. INSTALL CABLE INTO BODY OF CONNECTOR & SOFT SOLDER CENTER CONDUCTOR IN PLACE.
  3. CRIMP FERRULE & PRESS CAP DOWN.

- STRIPPING DIMENSIONS**
- NOTES:**
- 1. CABLE ATTACHMENT:
    - OUTER: CRIMP.
    - INNER: SOLDER.
  - 2. CRIMP SIZE REQUIRED:
    - CONTACT: SOLDER.
    - FERRULE: .213in [5.4] HEX. CRIMP TOOL.

|  |  |   |
|--|--|---|
| <p>Fairview Microwave®<br/>an INFINITI® brand</p> <p>Website: <a href="http://www.FairviewMicrowave.com">www.FairviewMicrowave.com</a><br/>Phone: 1.800.715.4396   1.972.649.6678</p>  |  | <p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p> <p>SCALE: NONE<br/>SHEET: 1 OF 1</p>  |
| <p>UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND TRAILING DIMENSIONS ARE IN MILLIMETERS.</p> <p>TOLERANCES:</p> <p>X = ±.2 [5]      FRACTIONS ±.132<br/>                 .XX = ±.02 [0.5]      ANGLES ± 1°<br/>                 .XXX = ±.005 [0.13]</p> <p>CABLE LENGTH TOLERANCES:</p> <p>&lt;12 [305] ±.60 [15.24] = +2 [51] / -0<br/>                 &gt;12 [305] ≤ 60 [1524] = +2 [51] / -0<br/>                 &gt;60 [1524] ≤ 120 [3048] = +4 [102] / -0<br/>                 &gt;120 [3048] ≤ 300 [7620] = +5% / -0</p> <p>ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.</p> |  | <p>DESCRIPTION: MCX PLUG RIGHT ANGLE CONNECTOR CRIMP/SOLDER ATTACHMENT FOR RG58, RG303, RG141, LMR-195, .195 INCH</p> <p>SIZE: A      CAGE CODE: 3FKR5      DRAWN BY: DZINN      ITEM NO.: FMCN1847</p> <p>REV: B</p> |

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVISION CONTRARY TO U.S. LAW PROHIBITED.

FM DS Rev-D4 Alt2b