

MMCX Plug Right Angle to MMCX Plug Right Angle using RG178 Coax Cable (Bronze Contact) in 48 Inches



FMCA9839-48

Configuration

- Connector 1: MMCX Plug Right Angle
- Connector 2: MMCX Plug Right Angle
- Cable Type: RG178

Features

- Max Frequency 3 GHz
- 70% Phase Velocity
- VSWR of 1.4:1

Applications

- General Purpose
- Laboratory Use
- Military
- Aerospace
- Wireless Communications
- General Purpose Test

Description

The RA MMCX plug to RA MMCX plug 48 inch cable using RG178, part number FMCA9839-48, from Fairview Microwave is in-stock and ships same day. This Fairview MMCX to MMCX cable assembly has a plug to plug gender configuration with 50 ohm RG178. The FMCA9839-48 MMCX plug to MMCX plug cable assembly operates to 3 GHz. The right angle MMCX interfaces on the RG178 cable allow 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 | Minimum | Typical | Maximum | Units |
|-------------------------|---------|--------------|---------|--------------|
| Frequency Range | DC | | 3 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 70 | | % |
| Capacitance | | 29.4 [96.46] | | pF/ft [pF/m] |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|-----|----|------|-------|
| Frequency | 0.1 | 0.25 | 0.5 | 1 | 3 | GHz |
| Insertion Loss (Typ.) | 0.92 | 1.2 | 1.6 | 2 | 3.32 | dB |

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB per connector

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Mechanical Specifications

Cable Assembly

| | |
|----------------|--------------------|
| Length | 48 in [121.92 cm] |
| Width/Diameter | 0.5 in [12.7 mm] |
| Weight | 0.03 lbs [13.61 g] |

Cable

| | |
|--------------------------------------|---------------------------|
| Cable Type | RG178 |
| Impedance | 50 Ohms |
| Inner Conductor Type | Stranded |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type | PTFE |

Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------|-------------------------------|---|
| Type | MMCX Plug Right Angle | MMCX Plug Right Angle |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Right Angle | Right Angle |
| Contact Material and Plating | Bronze, Gold over Copper | Beryllium Copper, Gold over Copper |
| Body Material and Plating | Bronze, Copper-Tin-Zinc Alloy | Beryllium Copper, Copper-Tin-Zinc Alloy |

Environmental Specifications

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

Plotted and Other Data

Notes:
Values at 25°C, sea level.

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Typical Performance Data

How to Order

Part Number Configuration:

FMCA9839

- xx

uu

Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: FMCA9839-12 = 12 inches long cable
FMCA9839-100cm = 100 cm long cable

MMCX Plug Right Angle to MMCX Plug Right Angle using RG178 Coax Cable (Bronze Contact) in 48 Inches 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.

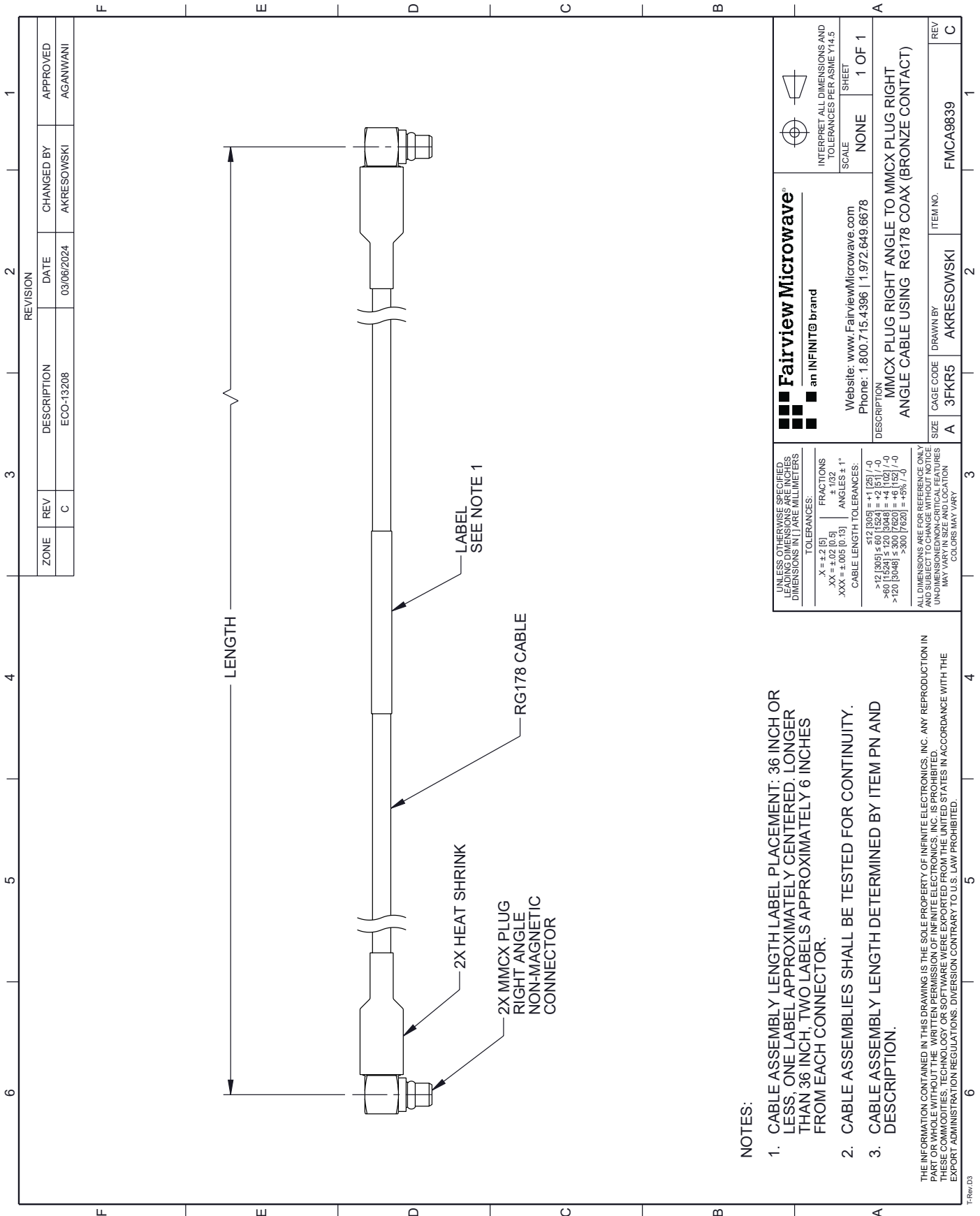
For additional information on this product, please click the following link: [MMCX Plug Right Angle to MMCX Plug Right Angle using RG178 Coax Cable \(Bronze Contact\) in 48 Inches FMCA9839-48](#)

URL: <https://www.fairviewmicrowave.com/non-magnetic-ra-mmcx-plug-to-ra-mmcx-plug-cable-rg178-coax-in-48-inch-fmca9839-48-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.

FMCA9839-48 CAD Drawing

MMCX Plug Right Angle to MMCX Plug Right Angle using RG178 Coax Cable (Bronze Contact) in 48 Inches



| REVISION | | ZONE | REV | DESCRIPTION | DATE | CHANGED BY | APPROVED |
|----------|--|------|-----|-------------|------------|------------|----------|
| | | | C | ECO-13208 | 03/06/2024 | AKRESOWSKI | AGANWANI |

| | | | | | |
|---|--|--|--|--|--|
| Fairview Microwave an INFINITB brand | | Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678 | | INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1 | |
| UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS TOLERANCES: X = ±.2 (5) FRACTIONS ± 1/32 .XX = ±.02 (0.5) ANGLES ± 1° .XXX = ±.005 (0.13) CABLE LENGTH TOLERANCES: ≤12 (305) ≤ 60 (1524) = ±.125 (-0) >12 (305) ≤ 60 (1524) = ±.125 (-0) >60 (1524) ≤ 120 (3048) = ±.125 (-0) >120 (3048) ≤ 300 (7620) = ±.125 (-0) >300 (7620) = ±.125 (-0) | | ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE UNLESS OTHERWISE SPECIFIED DIMENSIONS MAY VARY IN SIZE AND LOCATION COLORS MAY VARY | | DESCRIPTION: MMCX PLUG RIGHT ANGLE TO MMCX PLUG RIGHT ANGLE CABLE USING RG178 COAX (BRONZE CONTACT) SIZE: A CAGE CODE: 3FKR5 DRAWN BY: AKRESOWSKI ITEM NO.: FMCA9839 | |

- NOTES:**
- CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCH OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCH, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
 - CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
 - CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
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