

## Low Loss TNC Female Bulkhead to RA MMCX Plug Cable RG174 Coax in 48 Inch

The TNC female bulkhead to RA MMCX plug 48 inch cable using RG174 coax, part number FMC00334-48, from Fairview Microwave is in-stock and ships same day. This Fairview TNC to MMCX cable assembly has a female 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 FMC00334-48 TNC female to MMCX plug cable assembly operates to 1 GHz. The right angle MMCX interface on the RG174 cable allows for easier connections in tight spaces. Our RF cable assembly with TNC bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

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.) | 0.49 | 0.63 | 0.84 | 1.16 | 1.57  | 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*  | 48 in [121.92 cm]  |
| Diameter | 0.68 in [17.27 mm] |

#### 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                 |



### Configuration:

- TNC Female Bulkhead
- MMCX Plug Right Angle
- RG174

### Features:

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

### Applications:

- General Purpose
- Laboratory Use

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Shield Layer 1  
 Jacket Material  
 Jacket Diameter

Tinned Copper Braid  
 PVC, Black  
 0.11 in [2.79 mm]

## Connectors

| Description                   | Connector 1           | Connector 2    |
|-------------------------------|-----------------------|----------------|
| Type                          | TNC Female            | MMCX Plug      |
| Mount Method                  | Bulkhead              |                |
| Specification                 | MIL-STD-348           | MIL-STD-348A   |
| Impedance                     | 50 Ohms               | 50 Ohms        |
| Contact Material & Plating    | Phosphor Bronze, Gold | Brass, Gold    |
| Contact Plating Spec.         |                       | 30 µin minimum |
| Dielectric Type               | PTFE                  | PTFE           |
| Outer Cond Material & Plating | Brass, Nickel         |                |
| Body Material & Plating       | Brass, Nickel         | Brass, Gold    |
| Body Plating Spec.            |                       | 3 µin minimum  |
| Hex Size                      | 5/8 in                |                |

## 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:

**FMC00334 - xx uu**

cm = Centimeters  
 <blank> = Inches  
 Length

Example: FMC00334-12 = 12 inches long cable  
 FMC00334-100cm = 100 cm long cable

Low Loss TNC Female Bulkhead to RA MMCX Plug Cable RG174 Coax in 48 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.

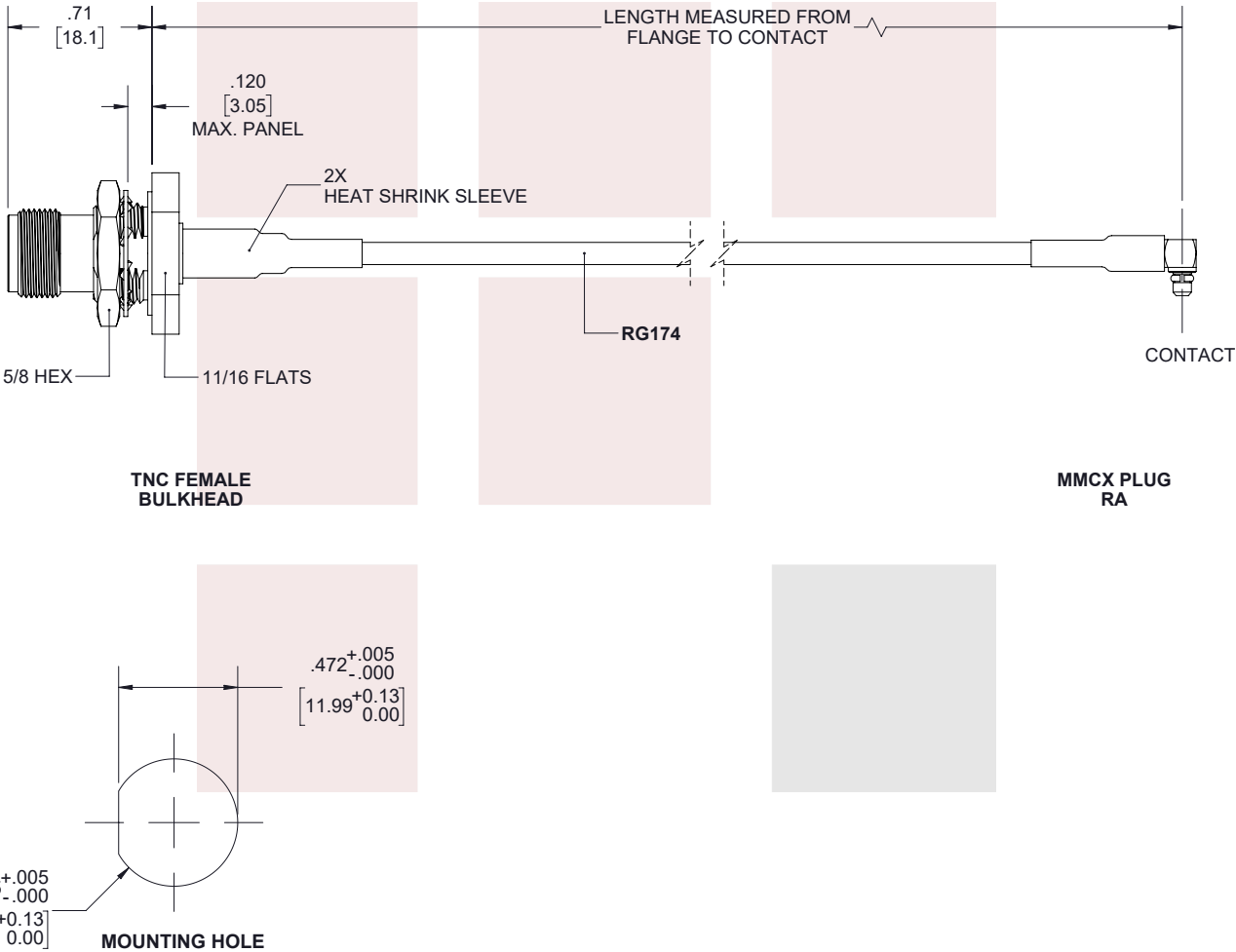
Click the following link to obtain additional part information: [Low Loss TNC Female Bulkhead to RA MMCX Plug Cable RG174 Coax in 48 Inch FMC00334-48](https://www.fairviewmicrowave.com/low-loss-tnc-female-ra-mmcx-plug-cable-rg174-coax-fmc00334-48-p.aspx)

URL: <https://www.fairviewmicrowave.com/low-loss-tnc-female-ra-mmcx-plug-cable-rg174-coax-fmc00334-48-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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| TITLE                                                                                                                                  |  | TOLERANCES:                                                                                   |  | CABLE LENGTH (L) TOLERANCES:                                                                                                                                                                                                           |  |
| Low Loss TNC Female Bulkhead to RA MMCX Plug Cable RG174 Coax in 48 Inch                                                               |  | .X = ±.2 [5.08] FRACTIONS ± 1/32                                                              |  | L ≤ 12 [305] = +1 [25] / -0                                                                                                                                                                                                            |  |
|                                                                                                                                        |  | .XX = ±.02 [.51] ANGLES ± 1°                                                                  |  | 12 [305] < L ≤ 60 [1524] = +2 [51] / -0                                                                                                                                                                                                |  |
|                                                                                                                                        |  |                                                                                               |  | 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0                                                                                                                                                                                             |  |
|                                                                                                                                        |  |                                                                                               |  | 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0                                                                                                                                                                                            |  |
|                                                                                                                                        |  |                                                                                               |  | 300 [7620] < L = +5%L / -0                                                                                                                                                                                                             |  |
|                                                                                                                                        |  | ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.                                                  |  | SHEET 1 OF 1                                                                                                                                                                                                                           |  |
|                                                                                                                                        |  | SIZE A                                                                                        |  | SCALE N/A                                                                                                                                                                                                                              |  |
|                                                                                                                                        |  | CAGE CODE 3FKR5                                                                               |  | DRAWN BY K.DANG                                                                                                                                                                                                                        |  |
|                                                                                                                                        |  |                                                                                               |  | ITEM NO. FMC00334                                                                                                                                                                                                                      |  |
|                                                                                                                                        |  |                                                                                               |  | REV A                                                                                                                                                                                                                                  |  |

T-Rev.D