

## Low Loss RA N Male to N Female Bulkhead Cable TCOM-240 Coax in 48 Inch with Times Microwave Components

The RA type N male to type N female bulkhead 48 inch cable using TCOM-240 coax, part number FMCA3281-48, from Fairview Microwave is in-stock and ships same day. This Fairview type N to type N cable assembly has a male to female gender configuration with 50 ohm flexible TCOM-240 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA3281-48 type N male to type N female cable assembly operates to 6 GHz. The right angle type N interface on the TCOM-240 cable allows for easier connections in tight spaces. Our RF cable assembly with type N 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. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness.

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  |     | 6     | GHz   |
| VSWR            |     |     | 1.4:1 |       |

### Performance by Frequency

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 0.25 | 0.5  | 1    | 2.5  | 6    | GHz   |
| Insertion Loss (Typ.) | 0.48 | 0.56 | 0.68 | 0.94 | 1.32 | dB    |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1\*SQRT(FGHz) dB for the N male right angle connector and 0.28 dB for the N female connector.

### Mechanical Specifications

#### Cable Assembly

|         |                      |
|---------|----------------------|
| Length* | 48 in [121.92 cm]    |
| Weight  | 0.312 lbs [141.52 g] |

#### Cable

|                                      |                            |
|--------------------------------------|----------------------------|
| Cable Type                           | TCOM-240                   |
| Impedance                            | 50 Ohms                    |
| Inner Conductor Type                 | Solid                      |
| Inner Conductor Material and Plating | Copper                     |
| Dielectric Type                      | PE (F)                     |
| Number of Shields                    | 2                          |
| Shield Layer 1                       | Silver Plated Copper Braid |
| Shield Layer 2                       | Tinned Copper Braid        |



### Configuration:

- N Male Right Angle
- N Female Bulkhead
- TCOM-240

### Features:

- Max Frequency 6 GHz
- Double Shielded
- PE Jacket
- 500 Mating Cycles

### Applications:

- General Purpose
- Laboratory Use

Fairview Microwave  
 301 Leora Ln., Suite 100  
 Lewisville, TX 75056  
 Tel: 1-800-715-4396 / (972) 649-6678  
 Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

Jacket Material PE, Black  
 Jacket Diameter 0.24 in [6.1 mm]

### Connectors

| Description                     | Connector 1            | Connector 2            |
|---------------------------------|------------------------|------------------------|
| Type                            | N Male Threaded        | N Female Threaded      |
| Mount Method                    |                        | Bulkhead               |
| Specification                   |                        | MIL-STD-348            |
| Impedance                       | 50 Ohms                | 50 Ohms                |
| Mating Cycles                   | 500                    | 500                    |
| Contact Material & Plating      | Beryllium Bronze, Gold | Beryllium Copper, Gold |
| Contact Plating Spec.           | 50 µin minimum         | 50 µinches             |
| Dielectric Type                 | PTFE                   | PTFE                   |
| Outer Cond Material & Plating   |                        | Brass, Tri-Metal       |
| Outer Cond Plating Spec.        |                        | 80 µinches             |
| Body Material & Plating         | Brass, Tri-Metal       | Brass, Tri-Metal       |
| Body Plating Spec.              | 80 µin minimum         |                        |
| Coupling Nut Material & Plating | Brass, Tri-Metal       |                        |
| Coupling Nut Plating Spec.      | 80 µin minimum         |                        |

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

### Plotted and Other Data

Notes:

### How to Order

Part Number Configuration:

**FMCA3281 - xx uu**

cm = Centimeters  
 <blank> = Inches  
 Length

Example: FMCA3281-12 = 12 inches long cable  
 FMCA3281-100cm = 100 cm long cable

Low Loss RA N Male to N Female Bulkhead Cable TCOM-240 Coax in 48 Inch with Times Microwave Components from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave 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 RA N Male to N Female Bulkhead Cable TCOM-240 Coax in 48 Inch with Times Microwave Components FMCA3281-48](https://www.fairviewmicrowave.com/low-loss-ra-n-male-to-n-female-bulkhead-cable-tcom-240-coax-in-48-inch-with-times-microwave-components-fmca3281-48)

URL: <https://www.fairviewmicrowave.com/low-loss-ra-n-male-to-n-female-bulkhead-cable-tcom-240-coax-in-48-inch-with-times-microwave-components-fmca3281-48-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.



