

## Low Loss N Male to RP SMA Plug Cable

### TCOM-240 Coax in 36 Inch with Times Microwave Components

The type N male to RP SMA plug 36 inch cable using TCOM-240 coax, part number FMCA3302-36, from Fairview Microwave is in-stock and ships same day. This Fairview type N to reverse polarity SMA cable assembly has a male to plug 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 FMCA3302-36 type N male to reverse polarity SMA plug cable assembly operates to 2.5 GHz. 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  |     | 2.5   | GHz   |
| VSWR            |     |     | 1.4:1 |       |

### Performance by Frequency

| Description           | F1   | F2   | F3   | F4   | F5 | Units |
|-----------------------|------|------|------|------|----|-------|
| Frequency             | 0.25 | 0.5  | 1    | 2.5  |    | GHz   |
| Insertion Loss (Typ.) | 0.26 | 0.33 | 0.43 | 0.63 |    | 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 dB for the reverse polarity SMA plug connector and  $0.1 \times \sqrt{F(\text{GHz})}$  dB for the N male connector.

### Mechanical Specifications

#### Cable Assembly

|         |                      |
|---------|----------------------|
| Length* | 36 in [914.4 mm]     |
| Weight  | 0.269 lbs [122.02 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        |
| Jacket Material                      | PE, Black                  |
| Jacket Diameter                      | 0.24 in [6.1 mm]           |



### Configuration:

- N Male
- SMA Plug Reverse Polarity
- TCOM-240

### Features:

- Max Frequency 2.5 GHz
- Double Shielded
- PE Jacket
- 500 Mating Cycles

### Applications:

- General Purpose
- Laboratory Use

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## Connectors

| Description                     | Connector 1            | Connector 2                |
|---------------------------------|------------------------|----------------------------|
| Type                            | N Male Threaded        | SMA Plug Threaded          |
| Polarity                        |                        | Reverse Polarity           |
| Specification                   | MIL-STD-348            | MIL-STD-345                |
| Impedance                       | 50 Ohms                | 50 Ohms                    |
| Mating Cycles                   | 500                    | 500                        |
| Contact Material & Plating      | Beryllium Copper, Gold | Beryllium copper, Gold     |
| Contact Plating Spec.           | 50 µin minimum         |                            |
| Dielectric Type                 | Teflon                 |                            |
| Body Material & Plating         | Brass, Tri-Metal       | Passivated Stainless Steel |
| Body Plating Spec.              | 80 µin minimum         |                            |
| Coupling Nut Material & Plating | Brass, Tri-Metal       | Passivated Stainless Steel |
| 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:

**FMCA3302 - xx uu**

cm = Centimeters  
 <blank> = Inches

Length

Example: FMCA3302-12 = 12 inches long cable  
 FMCA3302-100cm = 100 cm long cable

Low Loss N Male to RP SMA Plug Cable TCOM-240 Coax in 36 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 N Male to RP SMA Plug Cable TCOM-240 Coax in 36 Inch with Times Microwave Components FMCA3302-36](#)

URL: <https://www.fairviewmicrowave.com/low-loss-n-male-to-rp-sma-plug-cable-tcom-240-coax-in-36-inch-with-times-microwave-components-fmca3302-36.p.aspx>

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