

## Low PIM 4.3-10 Female to N Male Cable TFT-5G-402 Coax Using Times Microwave Components



### FMCA2492

#### Configuration

- Connector 1: 4.3-10 Female
- Connector 2: N Male
- Cable Type: TFT-5G-402
- Coax Flex Type: Flexible

#### Features

- Max Frequency 5.8 GHz
- Low PIM: -160 dBc Max
- Shielding Effectivity > 80 dB
- 76% Phase Velocity
- Double Shielded
- FEP Jacket
- 500 Mating Cycles

#### Applications

- General Purpose
- Laboratory Use
- Low PIM Applications
- Indoor and Outdoor Use
- Plenum Rated Applications

#### Description

The 4.3-10 female to type N male cable using TFT-5G-402 coax, part number FMCA2492, from Fairview Microwave is in-stock and ships same day. This Fairview 4.3-10 to type N cable assembly has a female to male gender configuration with 50 ohm flexible TFT-5G-402 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. Our low PIM design offers excellent passive intermodulation performance with PIM levels better than -160 dBc. The FMCA2492 4.3-10 female to type N male cable assembly operates to 5.8 GHz. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 80 dB.

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      |         | 5.8     | GHz   |
| VSWR                                       |         |         | 1.4:1   |       |
| Velocity of Propagation                    |         | 76      |         | %     |
| RF Shielding                               | 80      |         |         | dB    |
| Passive Intermodulation                    |         |         | -160    | dBc   |
| IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz |         |         |         |       |

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#### Electrical Specifications

| Description | Minimum | Typical     | Maximum | Units        |
|-------------|---------|-------------|---------|--------------|
| Capacitance |         | 26.7 [87.6] |         | pF/ft [pF/m] |

#### Specifications by Frequency

| Description           | F1    | F2    | F3    | F4   | F5    | Units |
|-----------------------|-------|-------|-------|------|-------|-------|
| Frequency             | 0.25  | 0.5   | 1     | 2.5  | 5.8   | GHz   |
| Insertion Loss (Typ.) | 0.057 | 0.083 | 0.117 | 0.19 | 0.295 | dB/ft |
|                       | 0.19  | 0.27  | 0.38  | 0.62 | 0.97  | dB/m  |

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as  $0.1 \cdot \sqrt{F(\text{GHz})}$  dB per connector.

#### Mechanical Specifications

##### Cable Assembly

Width/Diameter 0.808 in [20.52 mm]

##### Cable

Cable Type TFT-5G-402  
 Impedance 50 Ohms  
 Inner Conductor Type Solid  
 Inner Conductor Material and Plating Copper  
 Dielectric Type PTFE  
 Number of Shields 2  
 Jacket Material FEP, Blue  
 Jacket Diameter 0.16 in [4.06 mm]  
 One Time Minimum Bend Radius 0.75 in [19.05 mm]

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#### Connectors

| Description                           | Connector 1      | Connector 2      |
|---------------------------------------|------------------|------------------|
| Type                                  | 4.3-10 Female    | N Male           |
| Impedance                             | 50 Ohms          | 50 Ohms          |
| Configuration                         | Straight         | Straight         |
| Mating Cycles                         | 500              | 500              |
| Contact Material and Plating          | Bronze, Silver   | Brass, Silver    |
| Contact Plating Specification         | 200 µin          | 200 µin          |
| Dielectric Type                       | PTFE             | PTFE             |
| Outer Conductor Material and Plating  | Brass, Tri-Metal |                  |
| Outer Conductor Plating Specification | 80 µin           |                  |
| Body Material and Plating             | Brass, Tri-Metal | Brass, Tri-Metal |
| Body Plating Specification            | 80 µin           | 80 µin           |
| Coupling Nut Material and Plating     |                  | Brass, Tri-Metal |
| Coupling Nut Plating Specification    |                  | 80 µin           |
| Torque                                |                  | 15 in-lbs 1.7 Nm |

#### Environmental Specifications

Operating Range Temperature -40 to +85 deg C

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

#### Plotted and Other Data

Notes:

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### FMCA2492

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**FMCA2492**

**- xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: FMCA2492-12 = 12 inches long cable  
FMCA2492-100cm = 100 cm long cable

Low PIM 4.3-10 Female to N Male Cable TFT-5G-402 Coax Using Times Microwave Components 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: [Low PIM 4.3-10 Female to N Male Cable TFT-5G-402 Coax Using Times Microwave Components FMCA2492](https://www.fairviewmicrowave.com/low-pim-4.3-10-female-to-n-male-cable-tft-5g-402-coax-using-times-microwave-components-fmca2492)

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FMCA2492 CAD Drawing
Low PIM 4.3-10 Female to N Male Cable TFT-5G-402 Coax Using Times Microwave Components

