

N Male to N Male Low PIM Cable Using TFT-402-LF Coax Using Times Microwave Components

The type N male to type N male cable using TFT-402-LF coax, part number FMCA2348, from Fairview Microwave is in-stock and ships same day. This Fairview type N to type N cable assembly has a male to male gender configuration with 50 ohm flexible TFT-402-LF 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 FMCA2348 type N male 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 | Min | Typ | Max | Units |
|-------------------------|-----|-------------|-------|--------------|
| Frequency Range | DC | | 5.8 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 76 | | % |
| RF Shielding | 80 | | | dB |
| Passive Intermodulation | | | -160 | dBc |
| Capacitance | | 26.7 [87.6] | | pF/ft [pF/m] |

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency | 0.25 | 0.5 | 1 | 2.5 | 5.8 | GHz |
| Insertion Loss (Typ.) | 0.07 | 0.08 | 0.11 | 0.2 | 0.3 | dB/ft |
| | 0.23 | 0.26 | 0.36 | 0.66 | 0.98 | dB/m |

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as $0.1 * \text{SQRT}(\text{FGHz})$ dB per connector.

Mechanical Specifications

Cable Assembly

Cable

| | |
|--------------------------------------|------------|
| Cable Type | TFT-402-LF |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper |
| Dielectric Type | PTFE |
| Number of Shields | 2 |
| Jacket Material | FEP, Blue |



Configuration:

- N Male
- N Male
- TFT-402-LF

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

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sales@fairviewmicrowave.com

Jacket Diameter 0.16 in [4.06 mm]

One Time Minimum Bend Radius 0.75 in [19.05 mm]

Connectors

| Description | Connector 1 | Connector 2 |
|---------------------------------|------------------|------------------|
| Type | N Male | N Male |
| Impedance | 50 Ohms | 50 Ohms |
| Mating Cycles | 500 | 500 |
| Contact Material & Plating | Brass, Silver | Brass, Silver |
| Contact Plating Spec. | 200 µin | 200 µin |
| Dielectric Type | PTFE | PTFE |
| Body Material & Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Body Plating Spec. | 80 µin | 80 µin |
| Coupling Nut Material & Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Coupling Nut Plating Spec. | 80 µin | 80 µin |
| Torque | 15 in-lbs 1.7 Nm | 15 in-lbs 1.7 Nm |

Environmental Specifications
Temperature

Operating Range -40 to +125 deg C

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

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMCA2348 - xx uu

cm = Centimeters
<blank> = Inches

Length

Example: FMCA2348-12 = 12 inches long cable
FMCA2348-100cm = 100 cm long cable

N Male to N Male Low PIM Cable Using TFT-402-LF Coax Using 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.

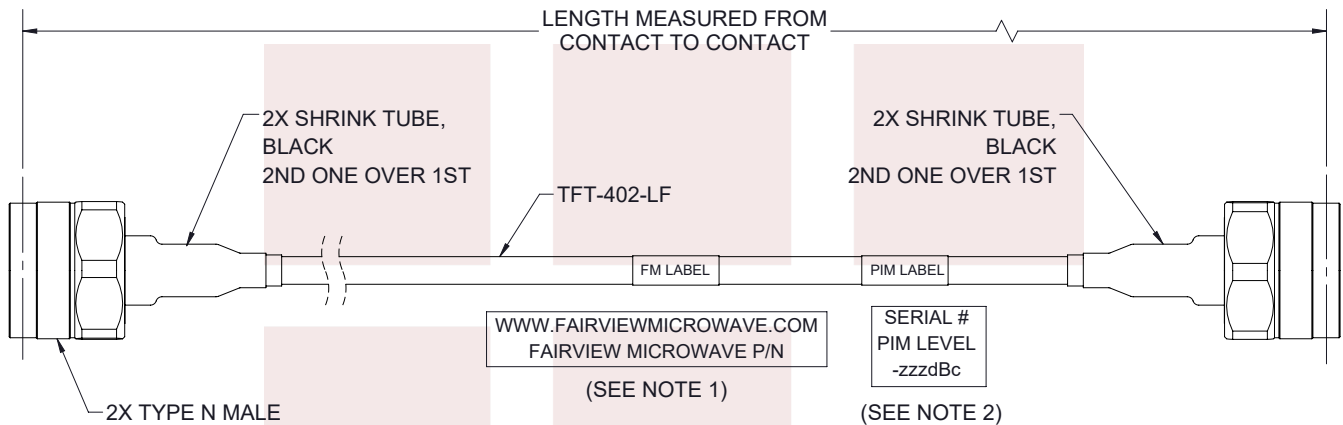
Click the following link to obtain additional part information: [N Male to N Male Low PIM Cable Using TFT-402-LF Coax Using Times Microwave Components FMCA2348](#)

URL: <https://www.fairviewmicrowave.com/low-pim-n-male-n-male-cable-tft-402-lf-coax-fmca2348-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 |
| B | PCR PE3C7959 20220517 AND PE3C7948 20210610 | 5/17/22 | SRAUTUS |



NOTES:

1. CABLES 84" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 84" HAVE 2 LABELS, ONE AT EACH END 12" FROM THE FRONT OF THE CONNECTOR.
2. PIM LABEL 6" FROM CABLE END 1 PLACE.

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|--|---|---|-----------------------------|-----------------------------|-------------------|--------|---|---------------------|-------------|--|--|--|---|--|--|----------------------------|--|
| <p>Fairview Microwave an INFINIT[®] brand</p> | <p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS</p> <p>TOLERANCES: CABLE LENGTH (L) TOLERANCES:</p> <table border="0"> <tr> <td>.X = ±.2 [.08]</td> <td>FRACTIONS</td> <td>L ≤ 12 [305] = +1 [25] / -0</td> </tr> <tr> <td>.XX = ±.02 [.51]</td> <td>± 1/32</td> <td>12 [305] < L ≤ 60 [1524] = +2 [51] / -0</td> </tr> <tr> <td>.XXX = ±.005 [.13]</td> <td>ANGLES ± 1°</td> <td>60 [1524] < L ≤ 120 [3048] = +4 [102] / -0</td> </tr> <tr> <td></td> <td></td> <td>120 [3048] < L ≤ 300 [7620] = +6 [152] / -0</td> </tr> <tr> <td></td> <td></td> <td>300 [7620] < L = +5%L / -0</td> </tr> </table> | .X = ±.2 [.08] | FRACTIONS | L ≤ 12 [305] = +1 [25] / -0 | .XX = ±.02 [.51] | ± 1/32 | 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 | .XXX = ±.005 [.13] | ANGLES ± 1° | 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 | | | 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 | | | 300 [7620] < L = +5%L / -0 | <p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.</p> |
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| <p>TITLE</p> <p>N Male to N Male Low PIM Cable Using TFT-402-LF Coax Using Times Microwave Components</p> | <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p> | <p>SHEET 1 OF 1</p> <p>SCALE N/A</p> | | | | | | | | | | | | | | | |
| <p>SIZE A</p> | <p>CAGE CODE 3FKR5</p> | <p>DRAWN BY DMAY</p> | <p>ITEM NO. FMCA2348</p> | <p>REV B</p> | | | | | | | | | | | | | |

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