

## Low PIM 7/16 DIN Male to N Male Cable TFT-402 Coax in 100 CM Using Times Microwave Components

The 7/16 DIN male to type N male 100 cm cable using TFT-402 coax, part number FMCA2454-100CM, from Fairview Microwave is in-stock and ships same day. This Fairview 7/16 DIN to type N cable assembly has a male to male gender configuration with 50 ohm flexible TFT-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 FMCA2454-100CM 7/16 DIN 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]
DC Resistance Inner Conductor		8.5 [27.89]		$\Omega$ /1000ft [ $\Omega$ /Km]
DC Resistance Outer Conductor		5.6 [18.37]		$\Omega$ /1000ft [ $\Omega$ /Km]

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.33	0.43	0.56	0.83	1.22	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 7/16 DIN connector and 0.1\*SQRT(FGHz) dB for the N connector.

### Mechanical Specifications

#### Cable Assembly

Length*	39.37 in [100 cm]
Diameter	1.25 in [31.75 mm]



### Configuration:

- 7/16 DIN Male
- N Male
- TFT-402

### Features:

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

### Applications:

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

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**Cable**

Cable Type	TFT-402
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Number of Shields	2
Shield Layer 1	Silver Plated Copper Braid
Shield Layer 2	Tinned Copper Braid
Jacket Material	FEP, Blue
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	7/16 DIN Male	N Male
Impedance	50 Ohms	50 Ohms
Mating Cycles		500
Contact Material & Plating	Brass, Silver	Brass, Silver
Contact Plating Spec.	5 µm	200 µin
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Spec.	3 µm	80 µin
Coupling Nut Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Spec.	3 µm	80 µin
Torque	22.083 ft-lbs 29.95 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)

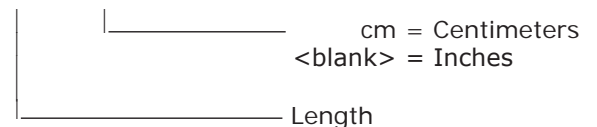
**Plotted and Other Data**

Notes:

**How to Order**

Part Number Configuration:

**FMCA2454 - xx uu**



Example: FMCA2454-12 = 12 inches long cable  
 FMCA2454-100cm = 100 cm long cable

Low PIM 7/16 DIN Male to N Male Cable TFT-402 Coax in 100 CM 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.

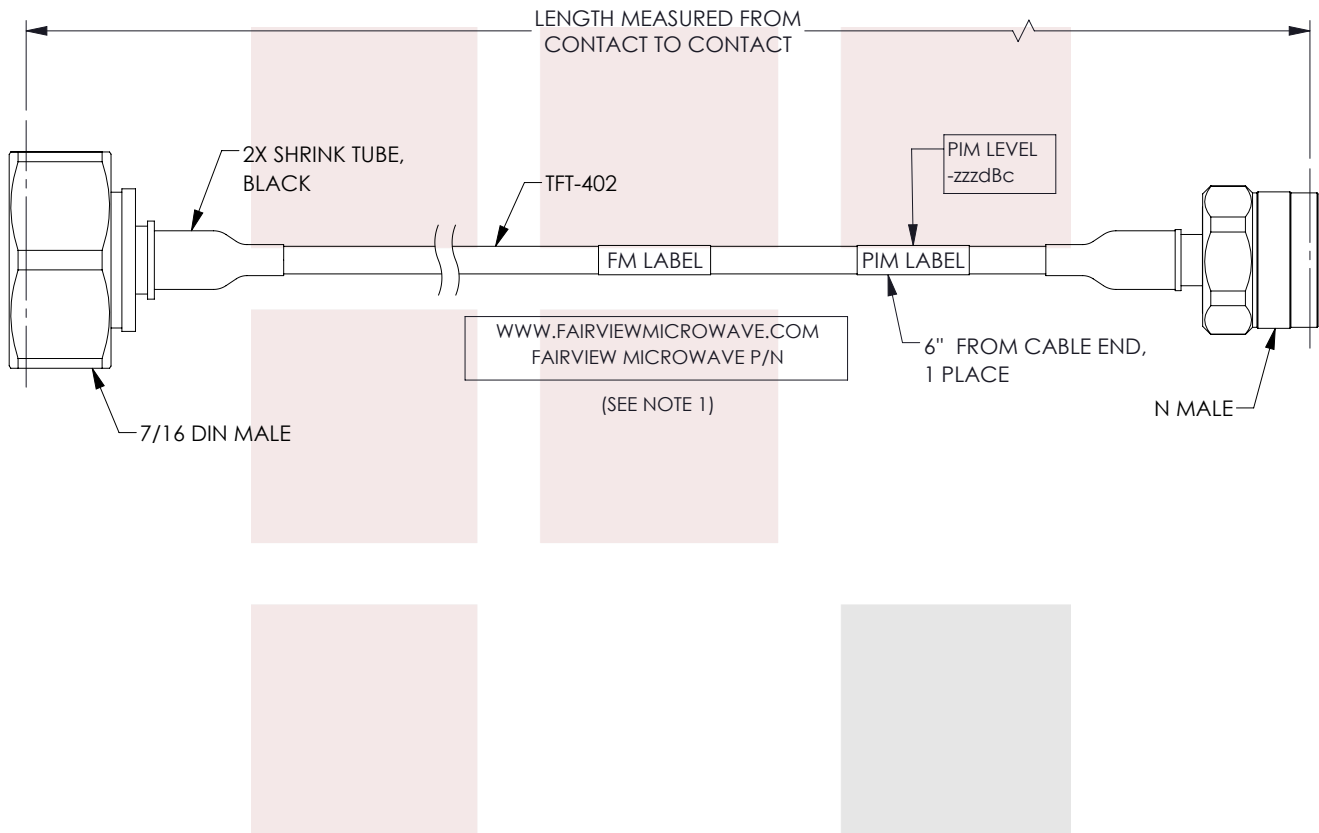
Click the following link to obtain additional part information: [Low PIM 7/16 DIN Male to N Male Cable TFT-402 Coax in 100 CM Using Times Microwave Components FMCA2454-100CM](https://www.fairviewmicrowave.com/low-pim-7-16-din-male-n-male-cable-tft-402-coax-fmca2454-100cm-p.aspx)

URL: <https://www.fairviewmicrowave.com/low-pim-7-16-din-male-n-male-cable-tft-402-coax-fmca2454-100cm-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	06/04/2021	AGANWANI



**NOTES:**

1. CABLES 84" AND UNDER HAVE 1 LABEL CENTERED.  
CABLES OVER 84" HAVE 2 LABELS, ONE AT EACH END  
12.0" FROM THE FRONT OF THE CONNECTOR.

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<p><b>Fairview Microwave</b> an INFINIT<sup>®</sup> brand</p>	<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p>TOLERANCES: CABLE LENGTH (L) TOLERANCES:</p> <p>.X = ±.2 [ .508] FRACTIONS L ≤ 12 [305] = +1 [25] / -0          .XX = ±.02 [ .51] ± 1/32 12 [305] &lt; L ≤ 60 [1524] = +2 [51] / -0          .XXX = ±.005 [ .13] ANGLES ± 1° 60 [1524] &lt; L ≤ 120 [3048] = +4 [102] / -0          120 [3048] &lt; L ≤ 300 [7620] = +6 [152] / -0          300 [7620] &lt; L = +5%L / -0</p>		<p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.</p>
	<p>TITLE</p> <p>Low PIM 7/16 DIN Male to N Male Cable TFT-402 Coax in 100 CM Using Times Microwave Components</p>		<p>SHEET 1 OF 1</p>
<p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>			<p>SCALE N/A</p>
<p>SIZE A</p>	<p>CAGE CODE 3FKR5</p>	<p>DRAWN BY MVEERAPPAN</p>	<p>ITEM NO. FMCA2454</p>
			<p>REV A</p>

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