

## Low PIM RA 4.3-10 Male to RA 7/16 DIN Male Cable TFT-5G-402 Coax in 150 CM Using Times Microwave Components



### FMCA2491-150CM

#### Configuration

- Connector 1: 4.3-10 Male Right Angle
- Connector 2: 7/16 DIN Male Right Angle
- 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

#### Applications

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

#### Description

The RA 4.3-10 male to RA 7/16 DIN male 150 cm cable using TFT-5G-402 coax, part number FMCA2491-150CM, from Fairview Microwave is in-stock and ships same day. This Fairview 4.3-10 to 7/16 DIN cable assembly has a male 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 FMCA2491-150CM 4.3-10 male to 7/16 DIN male cable assembly operates to 5.8 GHz. The right angle 4.3-10 and right angle 7/16 DIN interfaces on the TFT-5G-402 cable allow for easier connections in tight spaces. 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.)	0.46	0.6	0.8	1.22	1.82	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 4.3-10 connector and 0.12 dB for the 7/16 DIN connector.

**Mechanical Specifications**

**Cable Assembly**

Length 59.06 in [150.01 cm]  
Width/Diameter 1.25 in [31.75 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 Male Right Angle	7/16 DIN Male Right Angle
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Right Angle
Mating Cycles	500	
Contact Material and Plating	Brass, Silver	Brass, Silver
Contact Plating Specification	200 µin	200 µin
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	80 µin	100 µin
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	80 µin	100 µin
Torque	44 in-lbs 4.97 Nm	22.083 ft-lbs 29.95 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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**FMCA2491-150CM**

**Typical Performance Data**

**How to Order**

Part Number Configuration:

**FMCA2491**

**- xx**

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Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

Example: FMCA2491-12 = 12 inches long cable  
FMCA2491-100cm = 100 cm long cable

Low PIM RA 4.3-10 Male to RA 7/16 DIN Male Cable TFT-5G-402 Coax in 150 CM 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 RA 4.3-10 Male to RA 7/16 DIN Male Cable TFT-5G-402 Coax in 150 CM Using Times Microwave Components FMCA2491-150CM](https://www.fairviewmicrowave.com/low-pim-ra-4.3-10-male-to-ra-7-16-din-male-cable-tft-5g-402-coax-in-150-cm-using-times-microwave-components-fmca2491-150cm)

URL: <https://www.fairviewmicrowave.com/low-pim-ra-4.3-10-male-to-ra-7-16-din-male-cable-tft-5g-402-coax-in-150-cm-using-times-microwave-components-fmca2491-150cm-p.aspx>

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# FMCA2491-150CM CAD Drawing

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