

Low PIM RA 4.3-10 Male to RA 7/16 DIN Male Cable TFT-5G-402 Coax in 50 CM Using Times Microwave Components

FMCA2491-50CM



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 50 cm cable using TFT-5G-402 coax, part number FMCA2491-50CM, 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 FMCA2491-50CM 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.)	0.27	0.33	0.42	0.59	0.85	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	19.68 in [499.87 mm]
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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FMCA2491-50CM

Typical Performance Data

How to Order

Part Number Configuration: **FMCA2491** **- xx** **uu**

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 50 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.

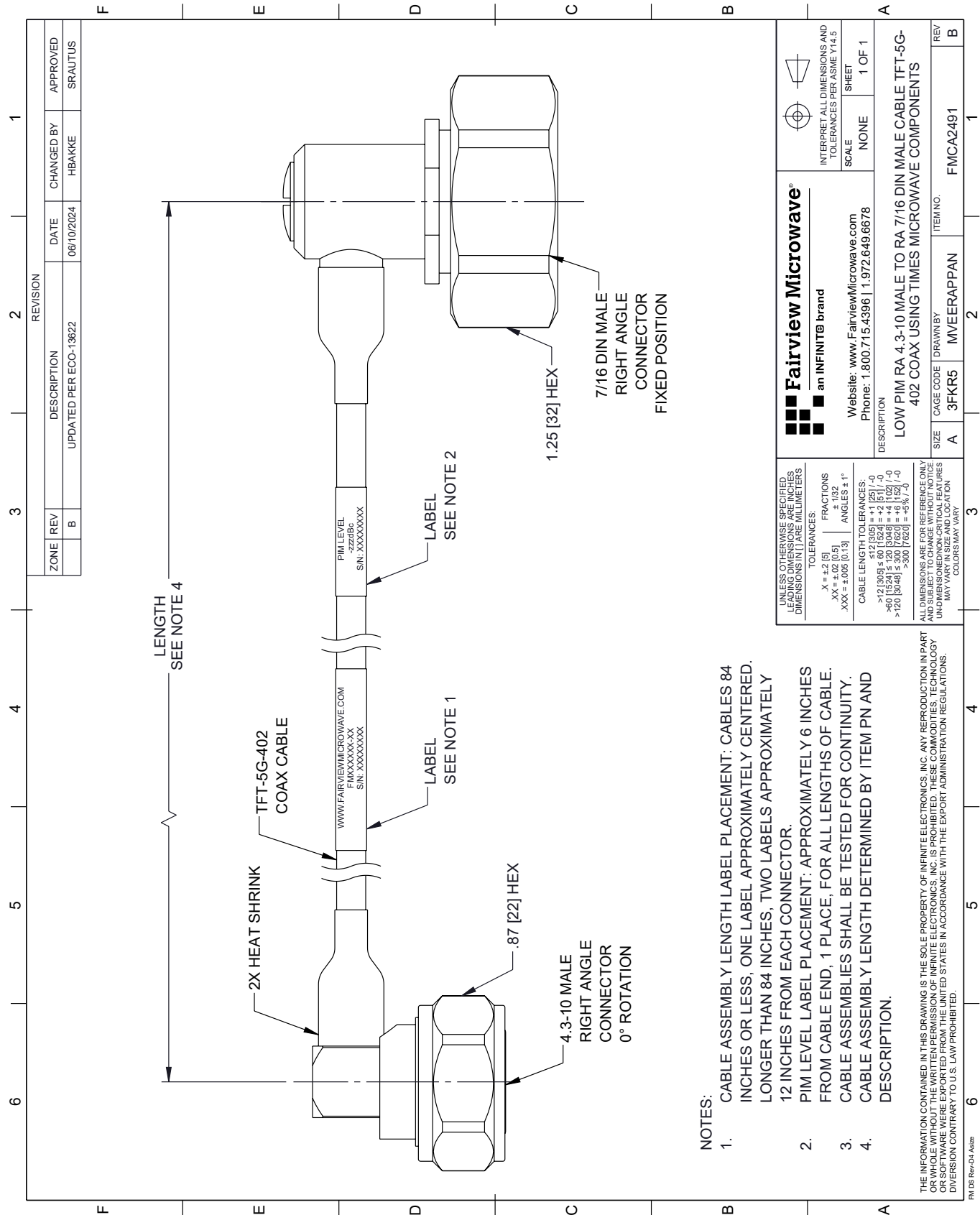
For additional information on this product, please click the following link: [Low PIM RA 4.3-10 Male to RA 7/16 DIN Male Cable TFT-5G-402 Coax in 50 CM Using Times Microwave Components FMCA2491-50CM](#)

URL: <https://www.fairviewmicrowave.com/low-pim-ra-4.3-10-male-to-ra-7-16-din-male-cable-tft-5g-402-coax-in-50-cm-using-times-microwave-components-fmca2491-50cm-p.aspx>

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FMCA2491-50CM CAD Drawing

Low PIM RA 4.3-10 Male to RA 7/16 DIN Male Cable TFT-5G-402 Coax in 50 CM Using Times Microwave Components



- NOTES:
1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: CABLES 84 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 84 INCHES, TWO LABELS APPROXIMATELY 12 INCHES FROM EACH CONNECTOR.
 2. PIM LEVEL LABEL PLACEMENT: APPROXIMATELY 6 INCHES FROM CABLE END, 1 PLACE, FOR ALL LENGTHS OF CABLE.
 3. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
 4. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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FM DS Rev-D4 Alt26

REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV			
	B	09/10/2024	HBAKKE	SRAUTUS
DESCRIPTION		UPDATED PER ECO-13622		

 Fairview Microwave® an INFINITI® brand		Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678		 INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1
UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS.		TOLERANCES:		DESCRIPTION
X = ±.2 [5]		FRACTIONS		LOW PIM RA 4.3-10 MALE TO RA 7/16 DIN MALE CABLE TFT-5G-402 COAX USING TIMES MICROWAVE COMPONENTS
.XX = ±.02 [0.5]		.XXX = ±.005 [0.13]		SIZE
CABLE LENGTH TOLERANCES:		ANGLES ± 1°		A
>12 [305] ≤ 60 [1524] = ±.125 [-0]		>60 [1524] ≤ 120 [3048] = ±.125 [-0]		CAGE CODE
>120 [3048] ≤ 180 [4572] = ±.125 [-0]		>180 [4572] ≤ 240 [6096] = ±.125 [-0]		3FKR5
>240 [6096] ≤ 300 [7620] = ±.125 [-0]		>300 [7620] = ±.125 [-0]		DRAWN BY
ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED/NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.		MVEERAPPAN		ITEM NO.
		FMC42491		REV
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