

Low PIM 4.1/9.5 Mini DIN Male to 4.3-10 Female Bulkhead Cable TFT-5G-402 Coax in 24 Inch Using Times Microwave Components



FMCA2464-24

Configuration

- Connector 1: 4.1/9.5 Mini DIN Male
- Connector 2: 4.3-10 Female Bulkhead
- Cable Type: TFT-5G-402
- Coax Flex Type: Flexible

Features

- Max Frequency 3 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 4.1/9.5 Mini DIN male to 4.3-10 female bulkhead 24 inch cable using TFT-5G-402 coax, part number FMCA2464-24, from Fairview Microwave is in-stock and ships same day. This Fairview 4.1/9.5 Mini DIN to 4.3-10 cable assembly has a male to female 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 FMCA2464-24 4.1/9.5 Mini DIN male to 4.3-10 female cable assembly operates to 3 GHz. Our RF cable assembly with 4.3-10 bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. 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		3	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				

Low PIM 4.1/9.5 Mini DIN Male to 4.3-10 Female Bulkhead Cable TFT-5G-402 Coax in 24 Inch Using Times Microwave Components



FMCA2464-24

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	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.21	0.27	0.34	0.44	0.69	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 male connector and $0.1 \cdot \sqrt{F(\text{GHz})}$ dB for the female connector.

Mechanical Specifications

Cable Assembly

Width/Diameter 0.867 in [22.02 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]

Low PIM 4.1/9.5 Mini DIN Male to 4.3-10 Female Bulkhead Cable TFT-5G-402 Coax in 24 Inch Using Times Microwave Components



FMCA2464-24

Connectors

Description	Connector 1	Connector 2
Type	4.1/9.5 Mini DIN Male	4.3-10 Female Bulkhead
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles		500
Contact Material and Plating	Brass, Silver	Phosphor Bronze, Silver
Contact Plating Specification	5 µm	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	2 µm	80 µin
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	5 µm	
Torque	106 in-lbs 11.98 Nm	

Environmental Specifications

Operating Range Temperature -40 to +85 deg C

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

Plotted and Other Data

Notes:

Low PIM 4.1/9.5 Mini DIN Male to 4.3-10 Female Bulkhead Cable TFT-5G-402 Coax in 24 Inch Using Times Microwave Components

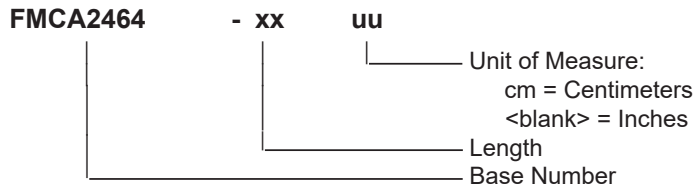


FMCA2464-24

Typical Performance Data

How to Order

Part Number Configuration:



Example: FMCA2464-12 = 12 inches long cable
FMCA2464-100cm = 100 cm long cable

Low PIM 4.1/9.5 Mini DIN Male to 4.3-10 Female Bulkhead Cable TFT-5G-402 Coax in 24 Inch 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.

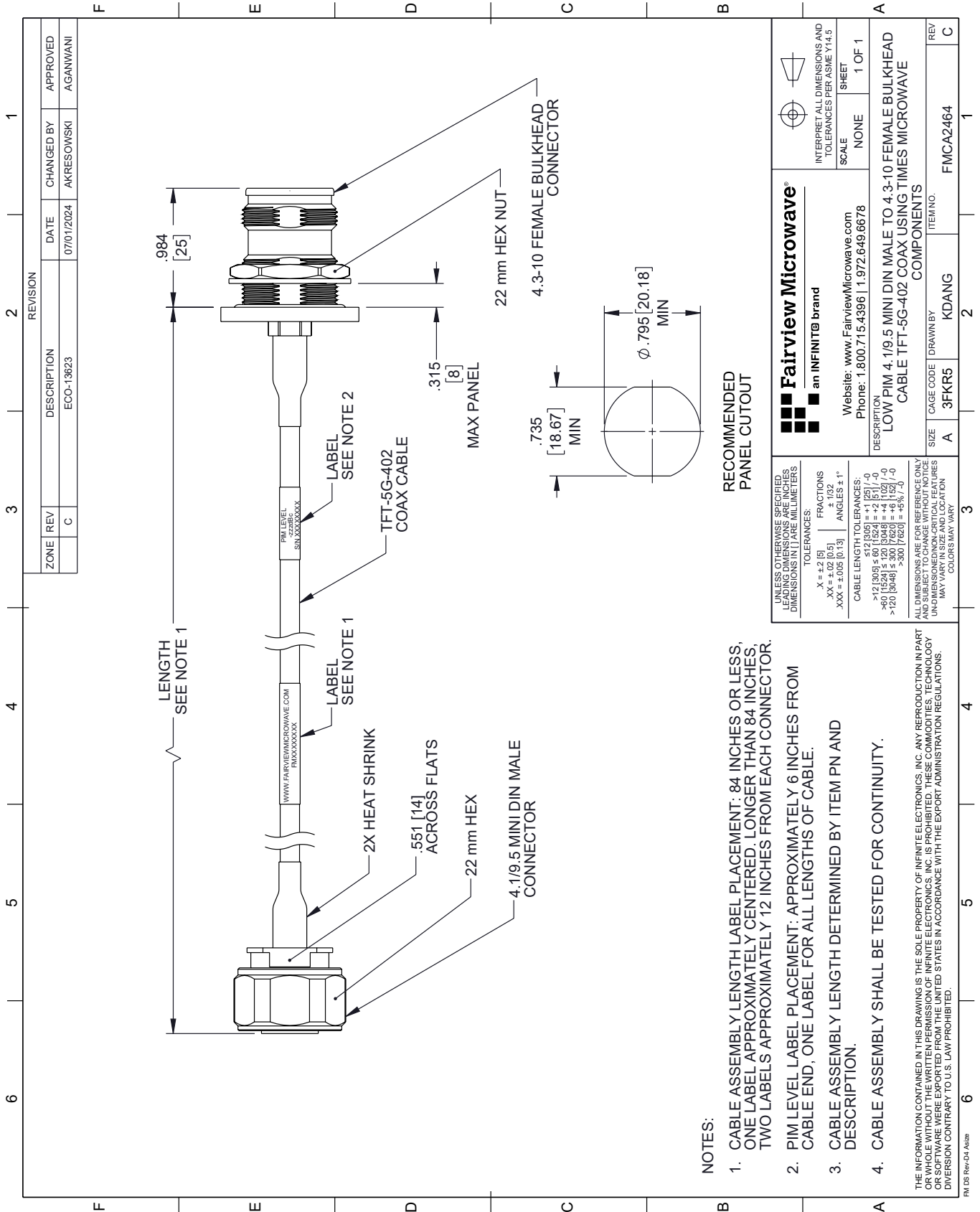
For additional information on this product, please click the following link: [Low PIM 4.1/9.5 Mini DIN Male to 4.3-10 Female Bulkhead Cable TFT-5G-402 Coax in 24 Inch Using Times Microwave Components FMCA2464-24](https://www.fairviewmicrowave.com/product/rf-cable-assemblies/low-pim-4.1-9.5-mini-din-male-4.3-10-female-cable-tft-5g-402-coax-fmca2464-24)

URL: <https://www.fairviewmicrowave.com/product/rf-cable-assemblies/low-pim-4.1-9.5-mini-din-male-4.3-10-female-cable-tft-5g-402-coax-fmca2464-24.html>

The information contained within 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 liability arising out of the use of any part or document.

FMCA2464-24 CAD Drawing

Low PIM 4.1/9.5 Mini DIN Male to 4.3-10 Female Bulkhead Cable TFT-5G-402 Coax in 24 Inch Using Times Microwave Components



NOTES:

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 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, ONE LABEL FOR ALL LENGTHS OF CABLE.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
4. CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

RECOMMENDED PANEL CUTOUT

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS.

TOLERANCES:
 .X = ±.2 [5] FRACTIONS ± 1/32
 .XX = ±.02 [0.5] ANGLES ± 1°
 .XXX = ±.005 [0.13]

CABLE LENGTH TOLERANCES:
 ≤ 12 [305] ≤ 60 [1524] = ±.1 [25] / -0
 > 60 [1524] ≤ 120 [3048] = ±.4 [102] / -0
 > 120 [3048] ≤ 300 [7620] = ±.6 [152] / -0
 > 300 [7620] = ±.8 [203] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

Fairview Microwave®
 an INFINITIB® 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

ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	C	ECO-13623	07/01/2024	AKRESOWSKI	AGANWANI

REVISION	DESCRIPTION	DATE	CHANGED BY	APPROVED
	ECO-13623	07/01/2024	AKRESOWSKI	AGANWANI

DESCRIPTION	SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
LOW PIM 4.1/9.5 MINI DIN MALE TO 4.3-10 FEMALE BULKHEAD CABLE TFT-5G-402 COAX USING TIMES MICROWAVE COMPONENTS	A	3FKR5	KDANG	FMCA2464	C