

FMCA2440-24 DATA SHEET

Low PIM 4.3-10 Female Bulkhead to N Male Cable TFT-402 Coax in 24 Inch Using Times Microwave Components

The 4.3-10 female bulkhead to type N male 24 inch cable using TFT-402 coax, part number FMCA2440-24, from Fairview Microwave is in-stock and ships same day. This Fairview 4.3-10 to type N cable assembly has a female 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 FMCA2440-24 4.3-10 female to type N male cable assembly operates to 5.8 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	Min	Т	ур	Max	Ur	its	
Frequency Range	DC			5.8	G	Hz	
VSWR				1.4:1			
Velocity of Propagation			76			%	
RF Shielding	-80				d	В	
Passive Intermodulation				-160	dI	Зс	
Capacitance		26.7 [87.6]		pF/ft [pF/m]			
DC Resistance Inner Con	ductor	8.5 [27.89] Ω/1000ft [Ω		t [Ω/Km]			
DC Resistance Outer Cor	nductor	5.6 [18.37] Ω/1000ft [Ω		t [Ω/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.)	0.21	0.3	0.42	0.67	1.02	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 per connector.

Mechanical Specifications

Cable Assembly

Length* Diameter 24 in [609.6 mm] 0.867 in [22.02 mm]



Configuration:

- 4.3-10 Female Bulkhead
- 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
- 500 Mating Cycles

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

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		
Туре	4.3-10 Fema	le	N Male		
Mount Method	Bulkhead				
Impedance	50 Ohms		50 Ohms		
Mating Cycles	500		500		
Contact Material & Plating	Phosphor Bronze, Silver		Brass, Silver		
Contact Plating Spec.	200 µin		200 µin		
Dielectric Type	PTFE		PTFE		
Outer Cond Material & Plati	ng Brass, Tri-Met	al			
Outer Cond Plating Spec.	80 µin				
Body Material & Plating	Brass, Tri-Met	al	Brass, Tri-Metal		
Body Plating Spec.	80 μin		80 µin		
Coupling Nut Material & Plating			Brass, Tri-Metal		
Coupling Nut Plating Spec.			80 µin		
Torque			15 in-lbs 1.7 Nm		

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

How to Order

FMCA2440 - xx Part Number Configuration: uu cm = Centimeters <black> = Inches Length

Example: FMCA2440-12 = 12 inches long cable

FMCA2440-100cm = 100 cm long cable

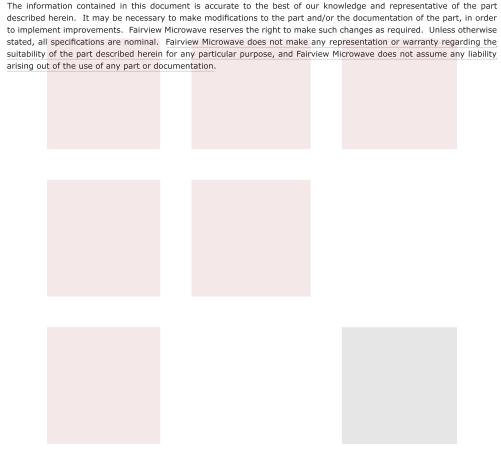




Low PIM 4.3-10 Female Bulkhead to N Male Cable TFT-402 Coax in 24 Inch Using Times Microwave Components from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

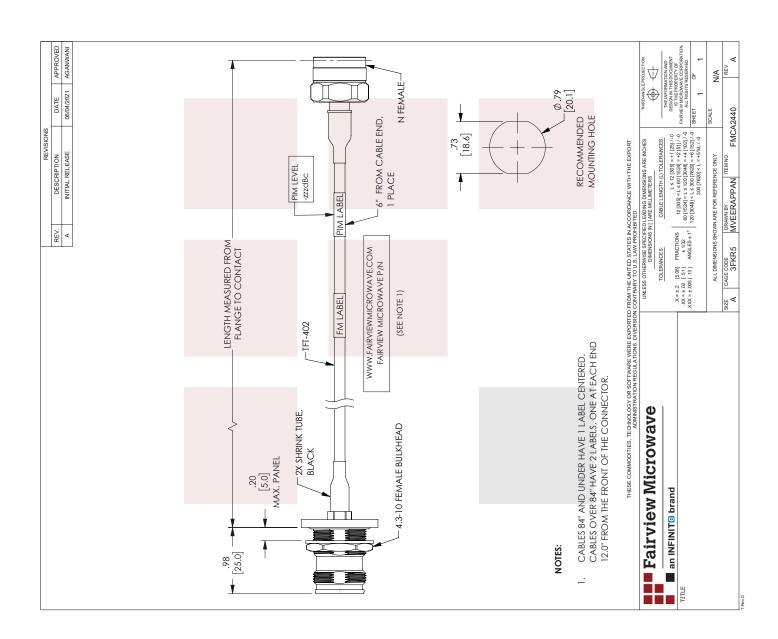
Click the following link to obtain additional part information: Low PIM 4.3-10 Female Bulkhead to N Male Cable TFT-402 Coax in 24 Inch Using Times Microwave Components FMCA2440-24

URL: https://www.fairviewmicrowave.com/low-pim-4.3-10-female-n-male-cable-tft-402-coax-fmca2440-24-p.aspx









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