

## Low PIM 4.1/9.5 Mini DIN Male to 4.3-10 Female Bulkhead Cable TFT-402 Coax in 36 Inch Using Times Microwave Components

The 4.1/9.5 Mini DIN male to 4.3-10 female bulkhead 36 inch cable using TFT-402 coax, part number FMCA2410-36, 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-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 FMCA2410-36 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	Min	Typ	Max	Units
Frequency Range	DC		3	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]		$\Omega/1000\text{ft}$ [ $\Omega/\text{Km}$ ]
DC Resistance Outer Conductor		5.6 [18.37]		$\Omega/1000\text{ft}$ [ $\Omega/\text{Km}$ ]

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.23	0.31	0.4	0.53	0.84	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  $0.1 \cdot \sqrt{\text{FGHz}}$  dB for the female connector.

### Mechanical Specifications

#### Cable Assembly

Length*	36 in [914.4 mm]
Diameter	0.867 in [22.02 mm]



### Configuration:

- 4.1/9.5 Mini DIN Male
- 4.3-10 Female Bulkhead
- TFT-402

### 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

Fairview Microwave  
 301 Leora Ln., Suite 100  
 Lewisville, TX 75056  
 Tel: 1-800-715-4396 / (972) 649-6678  
 Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

**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	4.1/9.5 Mini DIN Male	4.3-10 Female
Mount Method		Bulkhead
Impedance	50 Ohms	50 Ohms
Mating Cycles		500
Contact Material & Plating	Brass, Silver	Phosphor Bronze, Silver
Contact Plating Spec.	5 µm	200 µin
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plating		Brass, Tri-Metal
Outer Cond Plating Spec.		80 µin
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Spec.	2 µm	80 µin
Coupling Nut Material & Plating	Brass, Nickel	
Coupling Nut Plating Spec.	5 µm	
Torque	106 in-lbs 11.98 Nm	

**Environmental Specifications**

**Temperature**

Operating Range -40 to +85 deg C

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

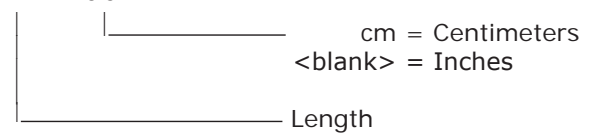
**Plotted and Other Data**

Notes:

**How to Order**

Part Number Configuration:

**FMCA2410 - xx uu**



Example: FMCA2410-12 = 12 inches long cable  
FMCA2410-100cm = 100 cm long cable

Low PIM 4.1/9.5 Mini DIN Male to 4.3-10 Female Bulkhead Cable TFT-402 Coax in 36 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.

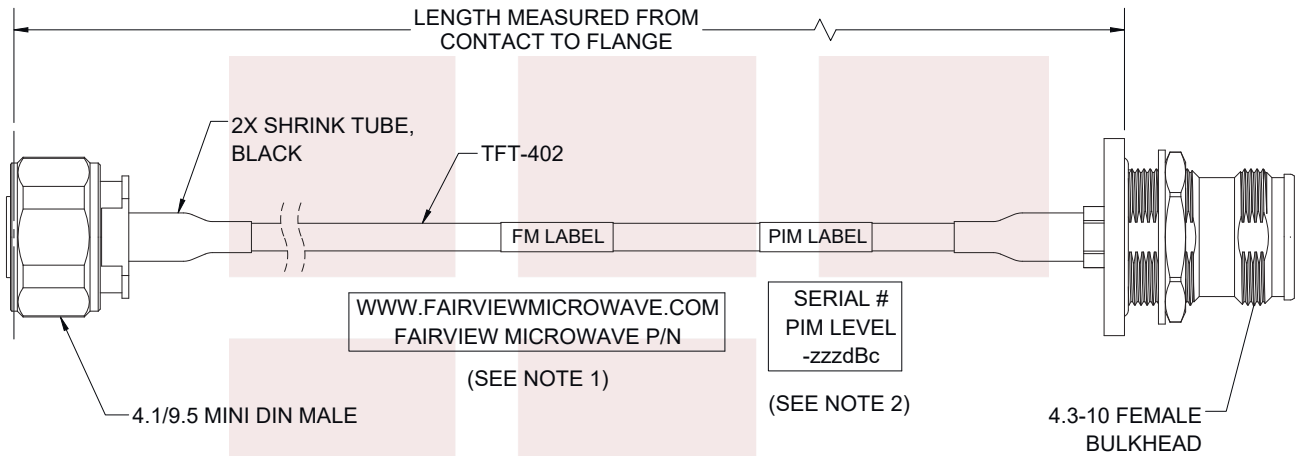
Click the following link to obtain additional part information: [Low PIM 4.1/9.5 Mini DIN Male to 4.3-10 Female Bulkhead Cable TFT-402 Coax in 36 Inch Using Times Microwave Components FMCA2410-36](#)

URL: <https://www.fairviewmicrowave.com/low-pim-4.1-9.5-mini-din-male-4.3-10-female-cable-tft-402-coax-fmca2410-36-p.aspx>

The information contained in 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 any liability arising out of the use of any part or documentation.



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	7/30/21	SRAUTS



**NOTES:**

1. CABLES 84" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 84" HAVE 2 LABELS, ONE AT EACH END 12" FROM THE FRONT OF THE CONNECTOR.
2. PIM LABEL 6" FROM CABLE END 1 PLACE.

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<p>SIZE A</p>	<p>CAGE CODE 3FKR5</p>	<p>DRAWN BY DMAY</p>	<p>ITEM NO. FMCA2410</p>															
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