



# Low PIM 4.1/9.5 Mini DIN Male to N Female Bulkhead Cable TFT-402-LF Coax Using Times Microwave Components

The 4.1/9.5 Mini DIN male to type N female bulkhead cable using TFT-402-LF coax, part number FMCA2477, from Fairview Microwave is in-stock and ships same day. This Fairview 4.1/9.5 Mini DIN to type N cable assembly has a male to female gender configuration with 50 ohm flexible TFT-402-LF 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 FMCA2477 4.1/9.5 Mini DIN male to type N female cable assembly operates to 3 GHz. Our RF cable assembly with type N 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	T	ур	Max	U	Inits	
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/f	t [pF/m	า]

#### **Performance by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.035	0.057	0.083	0.117	0.207	dB/ft
	0.11	0.19	0.27	0.38	0.68	dB/m

#### **Electrical Specification Notes:**

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

#### **Mechanical Specifications**

#### **Cable Assembly**

Diameter 0.866 in [22 mm]

#### Cable

Cable Type TFT-402-LF



# **Configuration:**

- 4.1/9.5 Mini DIN Male
- N Female Bulkhead
- TFT-402-LF

### **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

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Impedance50 OhmsInner Conductor TypeSolidInner Conductor Material and PlatingCopperDielectric TypePTFENumber of Shields2Jacket MaterialFEP, 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	4.1/9.5 Mini DIN M	Male N Female		
Mount Method		Bulkhead		
Impedance	50 Ohms	50 Ohms		
Contact Material & Plating	Brass, Silver	Brass, Silver		
Contact Plating Spec.	5 μm	5 μm		
Dielectric Type	PTFE	PTFE		
Outer Cond Material & Plati	ing	Brass, Tri-Metal		
Outer Cond Plating Spec.		3 µm		
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal		
Body Plating Spec.	2 µm	3 µm		
Coupling Nut Material & Pla	iting Brass, Nickel			
Coupling Nut Plating Spec.	5 µm			
Torque	106 in-lbs 11.98 N	Nm 10 in-lbs 1.13 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:

FMCA2477 - xx uu

cm = Centimeters
<black> = Inches

Length

Example: FMCA2477-12 = 12 inches long cable

FMCA2477-100cm = 100 cm long cable





Low PIM 4.1/9.5 Mini DIN Male to N Female Bulkhead Cable TFT-402-LF Coax 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 N Female Bulkhead Cable TFT-402-LF Coax Using Times Microwave Components FMCA2477

URL: https://www.fairviewmicrowave.com/low-pim-4.1-9.5-mini-din-male-n-female-cable-tft-402-lf-coax-fmca2477-p. aspx







