

Low PIM 4.1/9.5 Mini DIN Male to N Female Bulkhead Cable TFT-5G-402 Coax in 36 Inch Using Times Microwave Components



**FMCA2477-36**

**Configuration**

- Connector 1: 4.1/9.5 Mini DIN Male
- Connector 2: N 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 type N female bulkhead 36 inch cable using TFT-5G-402 coax, part number FMCA2477-36, 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-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 FMCA2477-36 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	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				

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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	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.31	0.38	0.45	0.56	0.83	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 per connector.

### Mechanical Specifications

**Cable Assembly**

Width/Diameter 0.866 in [22 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	4.1/9.5 Mini DIN Male	N Female Bulkhead
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Silver	Brass, Silver
Contact Plating Specification	5 µm	5 µm
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Brass, Tri-Metal
Outer Conductor Plating Specification		3 µm
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	2 µm	3 µm
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	5 µm	
Torque	106 in-lbs 11.98 Nm	10 in-lbs 1.13 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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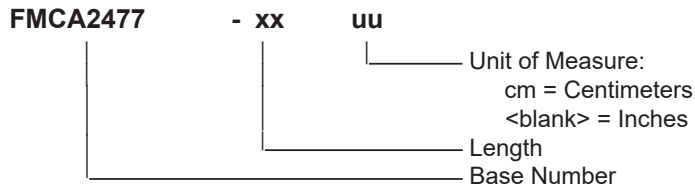


**FMCA2477-36**

**Typical Performance Data**

**How to Order**

Part Number Configuration:



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-5G-402 Coax in 36 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.

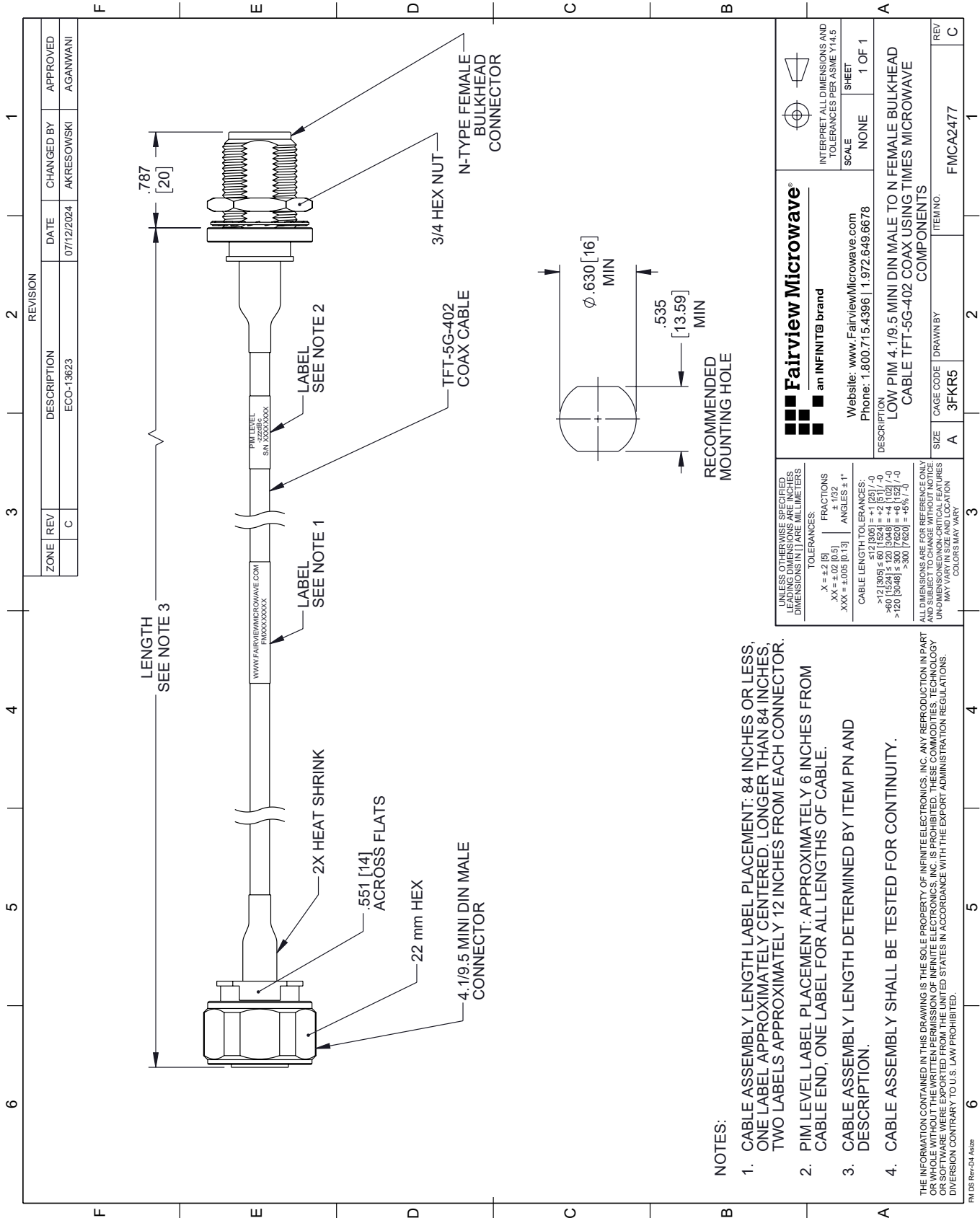
For additional information on this product, please click the following link: [Low PIM 4.1/9.5 Mini DIN Male to N Female Bulkhead Cable TFT-5G-402 Coax in 36 Inch Using Times Microwave Components FMCA2477-36](https://www.fairviewmicrowave.com/product/rf-cable-assemblies/low-pim-4.1-9.5-mini-din-male-n-female-cable-tft-5g-402-coax-fmca2477-36)

URL: <https://www.fairviewmicrowave.com/product/rf-cable-assemblies/low-pim-4.1-9.5-mini-din-male-n-female-cable-tft-5g-402-coax-fmca2477-36.html>

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# FMCA2477-36 CAD Drawing

Low PIM 4.1/9.5 Mini DIN Male to N Female Bulkhead Cable TFT-5G-402 Coax in 36 Inch Using Times Microwave Components



**NOTES:**

- 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.
- PIM LEVEL LABEL PLACEMENT: APPROXIMATELY 6 INCHES FROM CABLE END, ONE LABEL FOR ALL LENGTHS OF CABLE.
- CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
- CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.

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DESCRIPTION: LOW PIM 4.1/9.5 MINI DIN MALE TO N FEMALE BULKHEAD CABLE TFT-5G-402 COAX USING TIMES MICROWAVE COMPONENTS		
SIZE: A	CAGE CODE: 3FKR5	DRAWN BY: FMC2477
ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, DIMENSIONS IN [ ] ARE MILLIMETERS.		
TOLERANCES: X = ±.2 [5] FRACTIONS ±.132 .XX = ±.02 [0.51] ANGLES ± 1° .XXX = ±.005 [0.13]		
CABLE LENGTH TOLERANCES: <12 [305] ≤ 60 [1524] = ±.1 [25] / -0 >60 [1524] ≤ 120 [3048] = ±.2 [51] / -0 >120 [3048] ≤ 300 [7620] = ±.3 [7.62] / -0		
ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, DIMENSIONS IN [ ] ARE MILLIMETERS. UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.		

ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
C		ECO-13623	07/12/2024	AKRESOWSKI	AGANWANI