

FMCA2524-48 DATA SHEET

Low PIM 2.2-5 Female to N Female Cable TFT-402 Coax in 48 Inch Using Times Microwave Components

The 2.2-5 female to type N female 48 inch cable using TFT-402 coax, part number FMCA2524-48, from Fairview Microwave is in-stock and ships same day. This Fairview 2.2-5 to type N cable assembly has a female 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 FMCA2524-48 2.2-5 female to type N female cable assembly operates to 5.8 GHz. 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	ι	Jnits
Frequency Range	DC			5.8		GHz
VSWR				1.4:1		
Velocity of Propagation		7	76			%
RF Shielding	-80					dB
Passive Intermodulation				-160		dBc

Capacitance	26.7 [87.6]	pF/ft [pF/m]
DC Resistance Inner Conduct	or 8.5 [27.89]	Ω/1000ft [Ω/Km]
DC Resistance Outer Conduc	or 5.6 [18.37]	Ω/1000ft [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.)	0.36	0.48	0.64	0.96	1.41	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 for the 2.2-5 connector and 0.1 dB for the N connector.

Mechanical Specifications

Cable Assembly

Length* Diameter 48 in [121.92 cm] 0.665 in [16.89 mm]



Configuration:

- 2.2-5 Female
- N Female
- TFT-402

Features:

- Max Frequency 5.8 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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Cable

Cable Type TFT-402 Impedance 50 Ohms Inner Conductor Type Solid Inner Conductor Material and Plating Copper, Silver

PTFE

Dielectric Type 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	2.2-5 Female	N Female		
Impedance	50 Ohms	50 Ohms		
Mating Cycles	100	500		
Contact Material & Plating	Beryllium Copper, Si	lver Phosphor Bronze	, Silver	
Contact Plating Spec.	200 µin	5 µm		
Dielectric Type	PTFE	PTFE		
Outer Cond Material & Plati	er Cond Material & Plating Beryllium Copper, Silver		Brass, Tri-Metal	
Outer Cond Plating Spec.	100 μin	3 μm		
Body Material & Plating	Brass, Silver	Brass, Tri-Me	tal	
Body Plating Spec.	100 μin	3 µm		
Torque	26 in-lbs 2.94 Nr	m 10 in-lbs 1.13	Nm	

Environmental Specifications

Temperature

-40 to +125 deg C Operating Range

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

How to Order

Part Number Configuration: FMCA2524 - xx uu cm = Centimeters

lank> = Inches

Example: FMCA2524-12 = 12 inches long cable

FMCA2524-100cm = 100 cm long cable

- Length





Low PIM 2.2-5 Female to N Female Cable TFT-402 Coax in 48 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 2.2-5 Female to N Female Cable TFT-402 Coax in 48 Inch Using Times Microwave Components FMCA2524-48

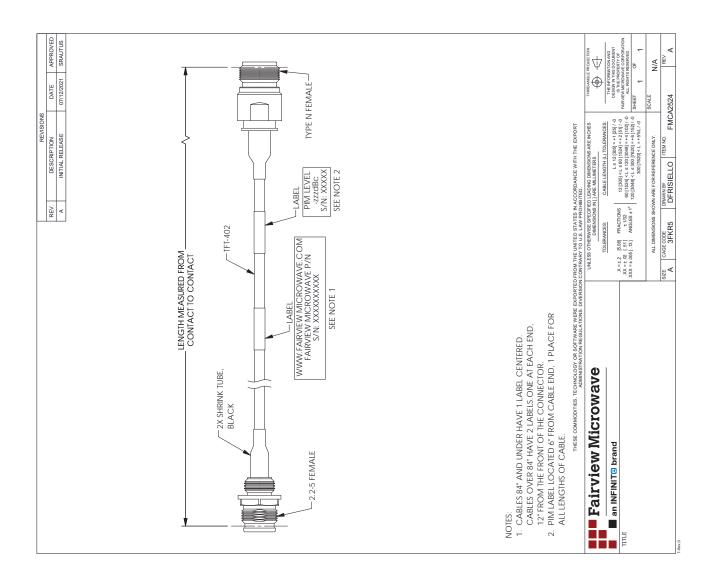
The information contained in this document is accurate to the best of our knowledge and representative of the part

URL: https://www.fairviewmicrowave.com/low-pim-2.2-5-female-n-female-cable-tft-402-coax-fmca2524-48-p.aspx

described l	herein. It may be necessar	y to make	modifications to t	he part and/or	the documentation	of the part, in order
	ent improvements. Fairview		_			
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	of the part described herein			and Fairview N	licrowave does not	assume any liability
arising out	of the use of any part or do	ocumentati	on.			







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