



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

The 2.2-5 female to type N female cable using TFT-402 coax, part number FMCA2524, 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 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	Т	ур	Max	Units
Frequency Range	DC			5.8	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 Condu	tor 8.5 [27.89]	Ω/1000ft [Ω/Km]
DC Resistance Outer Cond	tor 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.)	0.052	0.076	0.108	0.173	0.267	dB/ft
	0.17	0.25	0.35	0.57	0.88	dB/m

Electrical Specification Notes:

Insertion Loss does not include the Isos of the connectors. Insertion Loss is estimated as 0.1*SQRT(FGHz) dB for the 2.2-5 connector and 0.1 dB for the N connector.

Mechanical Specifications

Cable Assembly

Diameter 0.665 in [16.89 mm]

Cable

Cable Type TFT-402 Impedance 50 Ohms



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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Inner Conductor Type

Inner Conductor Material and Plating

Dielectric Type Number of Shields

Shield Layer 1 Shield Layer 2

Jacket Material

Jacket Diameter

Solid

Copper, Silver

PTFE 2

Silver Plated Copper Braid

Tinned Copper Braid

FEP, Blue

0.16 in [4.06 mm]

One Time Minimum Bend Radius 0.75 in [19.05 mm]

Connectors

Connector 1	Connector 2
2.2-5 Female	N Female
50 Ohms	50 Ohms
100	500
Beryllium Copper, Si	lver Phosphor Bronze, Silver
200 µin	5 μm
PTFE	PTFE
ng Beryllium Copper, Si	lver Brass, Tri-Metal
100 μin	3 μm
Brass, Silver	Brass, Tri-Metal
100 μin	3 μm
26 in-lbs 2.94 Nr	m 10 in-lbs 1.13 Nm
	2.2-5 Female 50 Ohms 100 Beryllium Copper, Si 200 µin PTFE ng Beryllium Copper, Si 100 µin Brass, Silver 100 µin

Environmental Specifications

Temperature

Operating Range -40 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMCA2524 - xx uu | cm = Centimeters | chlank> = Inches | Length

Example: FMCA2524-12 = 12 inches long cable

FMCA2524-100cm = 100 cm long cable





Low PIM 2.2-5 Female to N Female Cable TFT-402 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.

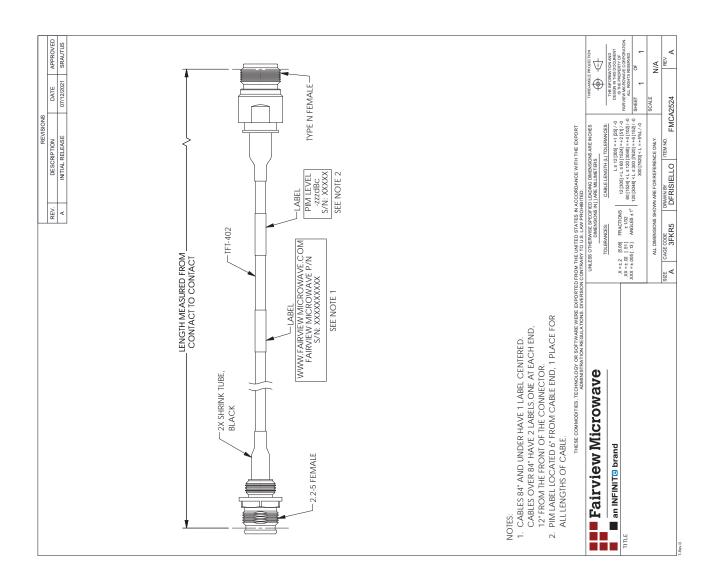
Click the following link to obtain additional part information: Low PIM 2.2-5 Female to N Female Cable TFT-402 Coax Using Times Microwave Components FMCA2524

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









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