



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

The 4.1/9.5 Mini DIN female to type N male cable using TFT-402 coax, part number FMCA2420, 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 female to male 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 FMCA2420 4.1/9.5 Mini DIN female to type N male 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	Units
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 Cor	nductor	8.5 [27.89]	Ω/1000ft [Ω/Km]
DC Resistance Outer Cor	nductor	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 loss of the connectors. Insertion Loss is estimated as 0.1*SQRT(FGHz) dB per connector.

Mechanical Specifications

Cable Assembly

Diameter 0.808 in [20.52 mm]

Cable

Cable Type TFT-402 Impedance 50 Ohms



Configuration:

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

Features:

- Max Frequency 5.8 GHz
- Low PIM: -160 dBc Max
- Shielding Effectivity > -80 dB
- 76% Phase Velocity
- · Double Shielded
- FEP Jacket
- 500 Mating Cycles

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

Description	Connector 1	. Connector 2		
Туре	4.1/9.5 Mini DIN Fe	emale N Male		
Impedance	50 Ohms	50 Ohms		
Mating Cycles	500	500		
Contact Material & Plating	Phosphor Bronze, S	Silver Brass, Silver		
Contact Plating Spec.	200 μin	200 µin		
Dielectric Type	PTFE	PTFE		
Outer Cond Material & Plat	ng Brass, Tri-Meta	I		
Outer Cond Plating Spec.	80 μin			
Body Material & Plating	Brass, Tri-Meta	Brass, Tri-Metal		
Body Plating Spec.	80 µin	80 µin		
Coupling Nut Material & Pla	iting	Brass, Tri-Metal		
Coupling Nut Plating Spec.		80 µin		
Torque		15 in-lbs 1.7 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:

FMCA2420 - xx uu | cm = Centimeters | chank> = Inches | Length

Example: FMCA2420-12 = 12 inches long cable

FMCA2420-100cm = 100 cm long cable





Low PIM 4.1/9.5 Mini DIN Female to N Male 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 4.1/9.5 Mini DIN Female to N Male Cable TFT-402 Coax Using Times Microwave Components FMCA2420

URL: https://www.fairviewmicrowave.com/low-pim-4.1-9.5-mini-din-female-n-male-cable-tft-402-coax-fmca2420-p.aspx







