

Low PIM 2.2-5 Female to N Male Cable TFT-402 Coax in 100 CM Using Times Microwave Components

The 2.2-5 female to type N male 100 cm cable using TFT-402 coax, part number FMCA2522-100CM, from Fairview Microwave is in-stock and ships same day. This Fairview 2.2-5 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 FMCA2522-100CM 2.2-5 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	Т	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 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.)	0.28	0.4	0.56	0.89	1.36	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 per connector.

Mechanical Specifications

Cable Assembly

Length* 39.37 in [100 cm]
Diameter 0.808 in [20.52 mm]

Cable

Cable Type TFT-402

FMCA2522-100CM DATA SHEET



Configuration:

- 2.2-5 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

Applications:

- General Purpose
- Laboratory Use
- Low PIM Applications
- Indoor and Outdoor Use
- Plenum Rated Applications

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Impedance
Inner Conductor Type

Inner Conductor Type Solid
Inner Conductor Material and Plating Copper, Silver

Dielectric Type Number of Shields

Shield Layer 1 Silver Plated Copper Braid Shield Layer 2 Tinned Copper Braid

50 Ohms

PTFE

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 Femal	е	N Male	
Impedance	50 Ohms		50 Ohms	
Mating Cycles	100		500	
Contact Material & Plating	Beryllium Copper,	Silv	ver Brass, Silver	
Contact Plating Spec.	200 µin		200 µin	
Dielectric Type	PTFE		PTFE	
Outer Cond Material & Plati	ng Beryllium Copper,	Beryllium Copper, Silver		
Outer Cond Plating Spec.	100 μin			
Body Material & Plating	Brass, Silver	-	Brass, Tri-Metal	
Body Plating Spec.	100 μin		80 μin	
Coupling Nut Material & Pla	ating		Brass, Tri-Metal	
Coupling Nut Plating Spec.			80 µin	
Torque	26 in-lbs 2.94 Nm 15 in-lbs 1.7 N			n

Environmental Specifications

TemperatureOperating 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:

Example: FMCA2522-12 = 12 inches long cable

FMCA2522-100cm = 100 cm long cable





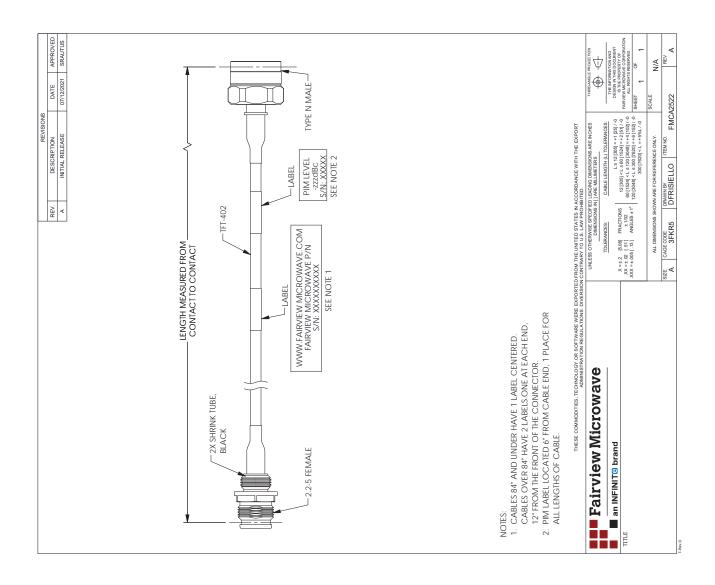
Low PIM 2.2-5 Female to N Male Cable TFT-402 Coax in 100 CM Using Times Microwave Components from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: Low PIM 2.2-5 Female to N Male Cable TFT-402 Coax in 100 CM Using Times Microwave Components FMCA2522-100CM

URL: https://www.fairviewmicrowave.com/low-pim-2.2-5-female-n-male-cable-tft-402-coax-fmca2522-100cm-p.aspx







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