



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

The type N male to type N female cable using TFT-402 coax, part number FMCA2319, from Fairview Microwave is in-stock and ships same day. This Fairview type N to type N cable assembly has a male 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 FMCA2319 type N male 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	ι	Jnits
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/f	t [pF/m]

Capacitance		26.7 [87.6]	pF/ft [pF/m]
DC Resistance Inner Cor	ductor	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.)	0.05	0.07	0.1	0.17	0.26	dB/ft
	0.16	0.23	0.33	0.56	0.85	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 for the male connector and 0.1 dB for the female connector.

Mechanical Specifications

Cable Assembly

Cable

Cable Type TFT-402
Impedance 50 Ohms
Inner Conductor Type Solid



Configuration:

- N Male
- 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
- 500 Mating Cycles

Applications:

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

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689

www.fairviewmicrowave.com sales@fairviewmicrowave.com





Inner Conductor Material and Plating Copper, Silver

Dielectric Type PTFE Number of Shields 2

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	N Male	N Female		
Impedance	50 Ohms	50 Ohms		
Mating Cycles	500	500		
Contact Material & Plating	Brass, Silver	Phosphor Bronze, Silver		
Contact Plating Spec.	200 µin	5 μm		
Dielectric Type	PTFE	PTFE		
Outer Cond Material & Plati	ing	Brass, Copper Clad Aluminum		
Outer Cond Plating Spec.		3 µm		
Body Material & Plating	Brass, Tri-Metal	Brass, Copper Clad Aluminum		
Body Plating Spec.	80 µin	3 µm		
Coupling Nut Material & Pla	nting Brass, Tri-Metal			
Coupling Nut Plating Spec.	80 µin			
Torque	15 in-lbs 1.7 Nm	10 in-lbs 1.13 Nm		

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:

FMCA2319 - xx uu | cm = Centimeters | chlank> = Inches | Length

Example: FMCA2319-12 = 12 inches long cable

FMCA2319-100cm = 100 cm long cable

301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689

Copyright © 2020 REV 1.1 Page 2 of 4





N Male to N Female Low PIM Cable Using 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: N Male to N Female Low PIM Cable Using TFT-402 Coax Using Times Microwave Components FMCA2319

URL: https://www.fairviewmicrowave.com/low-pim-n-male-n-female-cable-tft-402-coax-fmca2319-p.aspx







