

FMCA2533 DATA SHEET

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

The 2.2-5 female to type N female bulkhead cable using TFT-402-LF coax, part number FMCA2533, 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-LF 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 FMCA2533 2.2-5 female to type N female cable assembly operates to 5.8 GHz. Our RF cable assembly with type N bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. 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	Тур	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]

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.057	0.083	0.117	0.19	0.295	dB/ft
	0.19	0.27	0.38	0.62	0.97	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 0.748 in [19 mm]

Cable

Cable Type TFT-402-LF



Configuration:

- 2.2-5 Female
- N Female Bulkhead
- TFT-402-LF

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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Impedance50 OhmsInner Conductor TypeSolidInner Conductor Material and PlatingCopperDielectric TypePTFENumber of Shields2

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		
Mount Method		Bulkhead		
Impedance	50 Ohms	50 Ohms		
Mating Cycles	100			
Contact Material & Plating	Beryllium Copper, Sil	lver Brass, Silver		
Contact Plating Spec.	200 µin	5 μm		
Dielectric Type	PTFE	PTFE		
Outer Cond Material & Plati	ng Beryllium Copper, Sil	ver Brass, Tri-Metal		
Outer Cond Plating Spec.	100 μin	3 µm		
Body Material & Plating	Brass, Silver	Brass, Tri-Metal		
Body Plating Spec.	100 μin	3 µm		
Torque	26 in-lbs 2.94 Nr	m 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: FMCA2533 - xx uu

cm = Centimeters <blank> = Inches

----- Length

Example: FMCA2533-12 = 12 inches long cable

FMCA2533-100cm = 100 cm long cable





Low PIM 2.2-5 Female to N Female Bulkhead Cable TFT-402-LF 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 Bulkhead Cable TFT-402-LF Coax Using Times Microwave Components FMCA2533

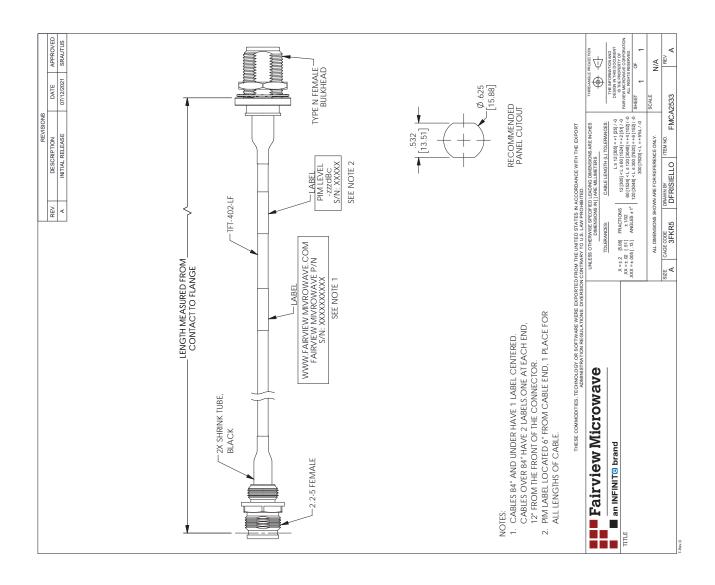
The information contained in this document is accurate to the best of our knowledge and representative of the part

URL: https://www.fairviewmicrowave.com/low-pim-2.2-5-female-n-female-cable-tft-402-lf-coax-fmca2533-p.aspx

described	herein. It ma	ay be necessar	y to mal	ke modificatio	ns to the part a	nd/or t	he documentation of the p	art, in order
to implem	nent improvem	nents. Fairview	Microwa	ave reserves	the right to mak	e such	changes as required. Unle	ss otherwise
stated, al	specification:	s are nominal.	Fairvie	w Microwave	does not make	any rep	resentation or warranty r	egarding the
			-		urpose, and Fair	view Mi	crowave does not assume	any liability
arising ou	it of the use o	f any part or do	ocument	ation.				







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