



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

The 2.2-5 male to 2.2-5 male cable using TFT-402 coax, part number FMCA2298, from Fairview Microwave is in-stock and ships same day. This Fairview 2.2-5 to 2.2-5 cable assembly has a male 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 FMCA2298 2.2-5 male to 2.2-5 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	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/ft [pF/m]	
DC Resistance Inner Cor	8.5 [27.89]			Ω/1000ft [Ω/Km]		
DC Resistance Outer Cor	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
	0.16	0.23	0.33	0.56	0.85	

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

Length* 0 in [0 mm]
Diameter 0.65 in [16.51 mm]

Cable

Cable Type TFT-402 Impedance 50 Ohms



Configuration:

- 2.2-5 Male
- 2.2-5 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
- 100 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

	Connect	or 1	Connector 2					
Туре				2.2-5 Male				
	50 Ohms			50 Ohms				
	100			100				
Contact Material & Plating			ver	Beryllium Copper, Silver				
Contact Plating Spec.		200 µin			200 µin			
	PTFE			PTFE				
	Brass, Si	lver		Brass, Silver				
	100 µi	n		100 µir	1			
Coupling Nut Material & Plating		Metal	Brass, Tri-Metal					
upling Nut Plating Spec.		n		1				
	26 in-lbs 2.	94 Nr	m 26 in-lbs 2.94 Nm					
		2.2-5 M 50 Ohn 100 Beryllium Copp 200 µin PTFE Brass, Si 100 µin ating Brass, Tri-I	100 Beryllium Copper, Sil 200 µin PTFE Brass, Silver 100 µin Brass, Tri-Metal 100 µin	2.2-5 Male 50 Ohms 100 Beryllium Copper, Silver 200 µin PTFE Brass, Silver 100 µin Brass, Tri-Metal	2.2-5 Male 2.2-5 Male 50 Ohms 50 Ohm 100 100 Beryllium Copper, Silver Beryllium Copp 200 µin 200 µir PTFE PTFE Brass, Silver B	2.2-5 Male 50 Ohms 50 Ohms 100 Beryllium Copper, Silver 200 µin PTFE Brass, Silver 100 µin PTFE Brass, Silver 100 µin Brass, Tri-Metal 100 µin 100 µin 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:

FMCA2298 - xx uu | cm = Centimeters | chlank> = Inches | Length

Example: FMCA2298-12 = 12 inches long cable

FMCA2298-100cm = 100 cm long cable





2.2-5 Male to 2.2-5 Male 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: 2.2-5 Male to 2.2-5 Male Low PIM Cable Using TFT-402 Coax Using Times Microwave Components FMCA2298

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-male-2.2-5-male-cable-tft-402-coax-fmca2298-p.aspx

described	herein. It	may be	necessar	y to ma	ke modific	ations to t	he part a	ind/or t	ne docun	nentation	of the part	t, in order
to implem	ent improv	ements.	Fairview	Microw	ave reserv	es the righ	nt to mak	e such	changes	as require	d. Unless	otherwise
stated, all	specification	ons are r	nominal.	Fairvie	w Microwa	ve does n	ot make	any rep	resentat	on or wa	rranty rega	arding the
	of the part					r purpose,	and Fair	view Mi	crowave	does not	assume ar	ny liability
arising ou	t of the use	of any p	part or do	ocument	tation.							





