



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

The 2.2-5 male to 2.2-5 female cable using TFT-402 coax, part number FMCA2299, 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 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 FMCA2299 2.2-5 male to 2.2-5 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	26.7 [87.6]		pF/ft [pF/m]		
DC Resistance Inner Con	8.5 [27.89]			Ω/1000ft [Ω/Km]		

Capacitance	26.7 [87.6]	pF/ft [pF/m]
DC Resistance Inner Conductor	8.5 [27.89]	Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor	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 0.665 in [16.89 mm]

Cable

Cable Type TFT-402 Impedance 50 Ohms



Configuration:

- 2.2-5 Male
- 2.2-5 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
- 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

Connector 1	Connector 2				
2.2-5 Male	2.2-5 Female				
50 Ohms	50 Ohms				
100	100				
Beryllium Copper, Si	lver Beryllium Copper, Silver				
200 µin	200 µin				
PTFE	PTFE				
ng	Beryllium Copper, Silver				
	100 μin				
Brass, Silver	Brass, Silver				
100 µin	100 µin				
iting Brass, Tri-Metal					
100 μin					
26 in-lbs 2.94 N	m 26 in-lbs 2.94 Nm				
	2.2-5 Male 50 Ohms 100 Beryllium Copper, Si 200 µin PTFE ing Brass, Silver 100 µin Brass, Tri-Metal 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:

FMCA2299 - xx uu

cm = Centimeters
<black> = Inches

– Length

Example: FMCA2299-12 = 12 inches long cable

FMCA2299-100cm = 100 cm long cable





Low PIM 2.2-5 Male to 2.2-5 Female 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 2.2-5 Male to 2.2-5 Female Cable TFT-402 Coax Using Times Microwave Components FMCA2299

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order

URL: https://www.fairviewmicrowave.com/low-pim-2.2-5-male-2.2-5-female-cable-tft-402-coax-fmca2299-p.aspx

to implem	nent improv	ements.	Fairview	Microw	ave reserv	es the righ	nt to mal	ke suc	h changes	as rec	quired.	Unles	s ot	herwise
stated, al	l specification	ons are	nominal.	Fairvie	w Microwa	ve does n	ot make	any r	epresentat	ion or	warra	anty re	gard	ling the
suitability	of the part	describ	ed hereir	for an	y particula	r purpose,	and Fai	rview	Microwave	does	not as	sume	any	liability
arising ou	t of the use	of any	part or do	ocument	tation.									





