

FMCA2299-12 DATA SHEET

Low PIM 2.2-5 Male to 2.2-5 Female Cable TFT-402 Coax in 12 Inch Using Times Microwave Components

The 2.2-5 male to 2.2-5 female 12 inch cable using TFT-402 coax, part number FMCA2299-12, 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 FMCA2299-12 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	T	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 Conductor			8.5 [27.89]			Ω/1000ft [Ω/Km]	
DC Resistance Outer Conductor			5.6 [18.37]			$\Omega/1000$ ft [$\Omega/$ 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.)	0.15	0.22	0.3	0.49	0.75	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* 12 in [304.8 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

Description	Connector 1	Connector 2		
Туре	2.2-5 Male	2.2-5 Female		
Impedance	50 Ohms	50 Ohms		
Mating Cycles	100	100		
Contact Material & Plating	Beryllium Copper, Si	lver Beryllium Copper, Silver		
Contact Plating Spec.	200 µin	200 µin		
Dielectric Type	PTFE	PTFE		
Outer Cond Material & Plati	ing	Beryllium Copper, Silver		
Outer Cond Plating Spec.		100 µin		
Body Material & Plating	Brass, Silver	Brass, Silver		
Body Plating Spec.	100 µin	100 µin		
Coupling Nut Material & Pla	ting Brass, Tri-Metal			
Coupling Nut Plating Spec.	100 μin			
Torque	26 in-lbs 2.94 No	m 26 in-lbs 2.94 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:

FMCA2299 - xx uu

cm = Centimeters
<black</pre>

– 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 in 12 Inch 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 in 12 Inch Using Times Microwave Components FMCA2299-12

URL: https://www.fairviewmicrowave.com/low-pim-2.2-5-male-2.2-5-female-cable-tft-402-coax-fmca2299-12-p.aspx







