

FMCA2417 DATA SHEET

Low PIM 4.1/9.5 Mini DIN Male to 7/16 DIN Female 4 Hole Flange Cable TFT-402 Coax Using Times Microwave Components

The 4.1/9.5 Mini DIN male to 7/16 DIN female 4 hole flange cable using TFT-402 coax, part number FMCA2417, from Fairview Microwave is in-stock and ships same day. This Fairview 4.1/9.5 Mini DIN to 7/16 DIN 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 FMCA2417 4.1/9.5 Mini DIN male to 7/16 DIN female cable assembly operates to 3 GHz. Our RF cable assembly with 7/16 DIN 4 hole flange 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	T	ур	Max	Units	
Frequency Range	DC			3	GHz	
VSWR				1.4:1		
Velocity of Propagation		7	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]			Ω/1000ft [Ω/Km]	

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.032	0.052	0.076	0.108	0.188	dB/ft
	0.1	0.17	0.25	0.35	0.62	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as $0.1\ dB$ per connector.

Mechanical Specifications

Cable Assembly

Diameter

1.26 in [32 mm]



Configuration:

- 4.1/9.5 Mini DIN Male
- 7/16 DIN Female 4 Hole Flange
- TFT-402

Features:

- Max Frequency 3 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

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





Cable

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

Inner Conductor Material and Plating Copper, Silver

Dielectric Type PTFE Number of Shields

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	4.1/9.5 Mini [DIN M	ale	7/16 DIN Fe	male	
Mount Method			4 Hole Flange		nge	
Impedance	50 Ohn	50 Ohms		50 Ohms		
Contact Material & Plating	Brass, Sil	Brass, Silver		Brass, Silver		
Contact Plating Spec.	5 μm	5 μm		5 µm		
Dielectric Type	PTFE	PTFE		PTFE		
Outer Cond Material & Plat	ing			Brass, Tri-M	letal	
Outer Cond Plating Spec.				3 µm		
Body Material & Plating	Brass, Tri-N	Brass, Tri-Metal		Brass, Tri-Metal		
Body Plating Spec.	2 μm	2 μm		3 µm		
Coupling Nut Material & Pla	nting Brass, Nic	Brass, Nickel				
Coupling Nut Plating Spec.	5 μm					
Torque	106 in-lbs 11	106 in-lbs 11.98 Nm 22.083 ft-lbs 29.95 N			9.95 Nm	

Environmental Specifications

Temperature Operating Range

-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

How to Order

FMCA2417 - xx Part Number Configuration: uu cm = Centimeters <black> = Inches

Example: FMCA2417-12 = 12 inches long cable

FMCA2417-100cm = 100 cm long cable

Length





Low PIM 4.1/9.5 Mini DIN Male to 7/16 DIN Female 4 Hole Flange 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 4.1/9.5 Mini DIN Male to 7/16 DIN Female 4 Hole Flange Cable TFT-402 Coax Using Times Microwave Components FMCA2417

URL: https://www.fairviewmicrowave.com/low-pim-4.1-9.5-mini-din-male-7-16-din-female-cable-tft-402-coax-fmca2417-p.aspx







