

Low PIM 4.1/9.5 Mini DIN Male to 7/16 DIN Female Cable TFT-402 Coax in 200 CM Using Times Microwave Components

The 4.1/9.5 Mini DIN male to 7/16 DIN female 200 cm cable using TFT-402 coax, part number FMCA2416-200CM, 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 FMCA2416-200CM 4.1/9.5 Mini DIN male to 7/16 DIN female cable assembly operates to 3 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	Units
Frequency Range	DC			3	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 Conduct	or 8.5 [27.89]	Ω/1000ft [Ω/Km]
DC Resistance Outer Conduct	or 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.)	0.41	0.55	0.7	0.91	1.44	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 dB per connector.

Mechanical Specifications

Cable Assembly

Length* 78.74 in [200 cm]
Diameter 0.866 in [22 mm]

Cable

Cable Type TFT-402

FMCA2416-200CM DATA SHEET



Configuration:

- 4.1/9.5 Mini DIN Male
- 7/16 DIN Female
- 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





Impedance Inner Conductor Type

Inner Conductor Material and Plating

Dielectric Type Number of Shields Shield Layer 1

Shield Layer 2 Jacket Material

Jacket Diameter

50 Ohms Solid Copper, Silver

PTFE

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	4.1/9.5 Mini DIN	N M	ale 7/16 DIN Female		
Impedance	50 Ohms		50 Ohms		
Contact Material & Plating	Brass, Silver		Brass, Silver		
Contact Plating Spec.	5 µm		5 μm		
Dielectric Type	PTFE		PTFE		
Outer Cond Material & Plati	ing		Brass, Tri-Metal		
Outer Cond Plating Spec.			3 µm		
Body Material & Plating	Brass, Tri-Me	tal	Brass, Tri-Metal		
Body Plating Spec.	2 µm		3 µm		
Coupling Nut Material & Pla	iting Brass, Nicke	el			
Coupling Nut Plating Spec.	5 µm				
Torque	106 in-lbs 11.9	8 N	lm 22.083 ft-lbs 29.95 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

Part Number Configuration:

FMCA2416 - xx uu

cm = Centimeters

dank> = Inches

Length

Example: FMCA2416-12 = 12 inches long cable

FMCA2416-100cm = 100 cm long cable





Low PIM 4.1/9.5 Mini DIN Male to 7/16 DIN Female Cable TFT-402 Coax in 200 CM 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 Cable TFT-402 Coax in 200 CM Using Times Microwave Components FMCA2416-200CM

URL: https://www.fairviewmicrowave.com/low-pim-4.1-9.5-mini-din-male-7-16-din-female-cable-tft-402-coax-fmca2416-200cm-p.aspx







