

Low PIM 4.1/9.5 Mini DIN Female to RA 7/16 DIN Male Cable TFT-402 Coax in 50 CM Using Times Microwave Components

The 4.1/9.5 Mini DIN female to RA 7/16 DIN male 50 cm cable using TFT-402 coax, part number FMCA2415-50CM, 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 female 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 FMCA2415-50CM 4.1/9.5 Mini DIN female to 7/16 DIN male cable assembly operates to 5.8 GHz. The right angle 7/16 DIN interface on the TFT-402 cable allows for easier connections in tight spaces. 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 | U | Inits | |
|-------------------------|---------|-------|--------|-------|--------------|-----------|----|
| Frequency Range | DC | | | 5.8 | | 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 Cor | nductor | 8.5 [| 27.89] | | Ω/100 | Oft [Ω/Kr | m] |
| DC Resistance Outer Cor | nductor | 5.6 [| 18.37] | | Ω/100 | Oft [Ω/Kr | n] |
| | | | | | | | |

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|-----|------|-----|-------|
| Frequency | 0.25 | 0.5 | 1 | 2.5 | 5.8 | GHz |
| Insertion Loss (Typ.) | 0.26 | 0.32 | 0.4 | 0.57 | 0.8 | 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 for the straight connector and 0.12 dB for the right angle connector.

Mechanical Specifications

Cable Assembly

Length* Diameter 19.68 in [499.87 mm] 1.25 in [31.75 mm]

FMCA2415-50CM DATA SHEET



Configuration:

- 4.1/9.5 Mini DIN Female
- 7/16 DIN Male Right Angle
- TFT-402

Features:

- Max Frequency 5.8 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

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Cable

Cable Type TFT-402
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper, Silver

Dielectric Type

PTFE

Dielectric Type P Number of Shields 2

Shield Layer 1 Silver Plated Copper Braid 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 | Connecto | r 1 | Connecto | r 2 | | |
|-----------------------------|----------------------------|-------------------------------|--------------------|------------------|--|--|
| Туре | 4.1/9.5 Mini DIN | l Female | male 7/16 DIN Male | | | |
| Impedance | 50 Ohms | S | 50 Ohms | | | |
| Mating Cycles | 500 | | | | | |
| Contact Material & Plating | Phosphor Bronze | e, Silver | Brass, Silv | er | | |
| Contact Plating Spec. | 200 µin | | 200 µin | | | |
| Dielectric Type | PTFE | | PTFE | | | |
| Outer Cond Material & Plat | ing Brass, Tri-M | etal | | | | |
| Outer Cond Plating Spec. | 80 µin | | | | | |
| Body Material & Plating | Brass, Tri-M | Brass, Tri-Metal Brass, Tri-N | | etal | | |
| Body Plating Spec. | 80 µin | | 100 μin | | | |
| Coupling Nut Material & Pla | ing Nut Material & Plating | | | Brass, Tri-Metal | | |
| Coupling Nut Plating Spec. | ec. 100 µin | | | | | |
| Torque | 22.083 ft-lbs 29.95 Nm | | | | | |
| | | | | | | |

Environmental Specifications

TemperatureOperating Range

-55 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

How to Order

Part Number Configuration: FMCA2415 - xx uu | cm = Centimeters | cblank> = Inches

Example: FMCA2415-12 = 12 inches long cable

FMCA2415-100cm = 100 cm long cable

Length





Low PIM 4.1/9.5 Mini DIN Female to RA 7/16 DIN Male Cable TFT-402 Coax in 50 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 Female to RA 7/16 DIN Male Cable TFT-402 Coax in 50 CM Using Times Microwave Components FMCA2415-50CM

URL: https://www.fairviewmicrowave.com/low-pim-4.1-9.5-mini-din-female-ra-7-16-din-male-cable-tft-402-coax-fm-ca2415-50cm-p.aspx







