

Low PIM 4.1/9.5 Mini DIN Female to RA  
4.3-10 Male Cable TFT-5G-402 Coax in 150 CM  
Using Times Microwave Components



**FMCA2461-150CM**

**Configuration**

- Connector 1: 4.1/9.5 Mini DIN Female
- Connector 2: 4.3-10 Male Right Angle
- Cable Type: TFT-5G-402
- Coax Flex Type: Flexible

**Features**

- Max Frequency 5.8 GHz
- Low PIM: -160 dBc Max
- Shielding Effectivity > 80 dB
- 76% Phase Velocity
- Double Shielded
- FEP Jacket
- 500 Mating Cycles

**Applications**

- General Purpose
- Laboratory Use
- Low PIM Applications
- Indoor and Outdoor Use
- Plenum Rated Applications

**Description**

The 4.1/9.5 Mini DIN female to RA 4.3-10 male 150 cm cable using TFT-5G-402 coax, part number FMCA2461-150CM, from Fairview Microwave is in-stock and ships same day. This Fairview 4.1/9.5 Mini DIN to 4.3-10 cable assembly has a female to male gender configuration with 50 ohm flexible TFT-5G-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 FMCA2461-150CM 4.1/9.5 Mini DIN female to 4.3-10 male cable assembly operates to 5.8 GHz. The right angle 4.3-10 interface on the TFT-5G-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	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR			1.4:1	
Velocity of Propagation		76		%
RF Shielding	80			dB
Passive Intermodulation			-160	dBc
IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz				

Low PIM 4.1/9.5 Mini DIN Female to RA  
4.3-10 Male Cable TFT-5G-402 Coax in 150 CM  
Using Times Microwave Components



## FMCA2461-150CM

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Capacitance		26.7 [87.6]		pF/ft [pF/m]

### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.39	0.55	0.78	1.26	1.94	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  $0.1 \cdot \sqrt{f(\text{GHz})}$  dB per connector.

### Mechanical Specifications

#### Cable Assembly

Width/Diameter 0.86 in [21.84 mm]

#### Cable

Cable Type TFT-5G-402  
 Impedance 50 Ohms  
 Inner Conductor Type Solid  
 Inner Conductor Material and Plating Copper  
 Dielectric Type PTFE  
 Number of Shields 2  
 Jacket Material FEP, Blue  
 Jacket Diameter 0.16 in [4.06 mm]  
 One Time Minimum Bend Radius 0.75 in [19.05 mm]

Low PIM 4.1/9.5 Mini DIN Female to RA  
4.3-10 Male Cable TFT-5G-402 Coax in 150 CM  
Using Times Microwave Components



## FMCA2461-150CM

### Connectors

Description	Connector 1	Connector 2
Type	4.1/9.5 Mini DIN Female	4.3-10 Male Right Angle
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Mating Cycles	500	500
Contact Material and Plating	Phosphor Bronze, Silver	Brass, Silver
Contact Plating Specification	200 µin	200 µin
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Brass, Tri-Metal	
Outer Conductor Plating Specification	80 µin	
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	80 µin	80 µin
Coupling Nut Material and Plating		Brass, Tri-Metal
Coupling Nut Plating Specification		80 µin
Torque		44 in-lbs 4.97 Nm

### Environmental Specifications

Operating Range Temperature -40 to +85 deg C

**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Notes:



# FMCA2461-150CM CAD Drawing

Low PIM 4.1/9.5 Mini DIN Female to RA 4.3-10 Male Cable TFT-5G-402 Coax in 150 CM Using Times Microwave Components

