



FMCA2500-48

Configuration

· Connector 1: 4.3-10 Male Right Angle

Connector 2: N FemaleCable Type: TFT-5G-402Coax 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 RA 4.3-10 male to type N female 48 inch cable using TFT-5G-402 coax, part number FMCA2500-48, from Fairview Microwave is in-stock and ships same day. This Fairview 4.3-10 to type N cable assembly has a male to female 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 FMCA2500-48 4.3-10 male to type N female 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				





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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.)	0.38	0.51	0.67	1.02	1.53	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 right angle connector and 0.1 dB for the straight connector.

Mechanical Specifications

Cable Assembly

Length 48 in [121.92 cm] 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 FEP, Blue Jacket Material

0.16 in [4.06 mm] Jacket Diameter

One Time Minimum Bend Radius 0.75 in [19.05 mm]





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Connectors

Description	Connector 1	Connector 2
Туре	4.3-10 Male Right Angle	N Female
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Mating Cycles	500	500
Contact Material and Plating	Brass, Silver	Phosphor Bronze, Silver
Contact Plating Specification	200 μin	5 μm
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Brass, Tri-Metal
Outer Conductor Plating Specification		3 µm
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	80 μin	3 µm
Coupling Nut Material and Plating	Brass, Tri-Metal	
Coupling Nut Plating Specification	80 μin	
Torque	44 in-lbs 4.97 Nm	10 in-lbs 1.13 Nm

Environmental Specifications

Operating Range Temperature

-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:





FMCA2500-48

Typical Performance Data

How to Order



Example: FMCA2500-12 = 12 inches long cable

FMCA2500-100cm = 100 cm long cable

Low PIM RA 4.3-10 Male to N Female Cable TFT-5G-402 Coax in 48 Inch Using Times Microwave Components from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: Low PIM RA 4.3-10 Male to N Female Cable TFT-5G-402 Coax in 48 Inch Using Times Microwave Components FMCA2500-48

URL: https://www.fairviewmicrowave.com/low-pim-ra-4.3-10-male-to-n-female-cable-tft-5g-402-coax-in-48-inch-using-times-microwave-components-fmca2500-48-p.aspx

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