



FMCA2494-48

Configuration

· Connector 1: 4.3-10 Female Bulkhead

Connector 2: N MaleCable 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 4.3-10 female bulkhead to type N male 48 inch cable using TFT-5G-402 coax, part number FMCA2494-48, from Fairview Microwave is in-stock and ships same day. This Fairview 4.3-10 to type N 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 FMCA2494-48 4.3-10 female to type N male cable assembly operates to 5.8 GHz. Our RF cable assembly with 4.3-10 bulkhead 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	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.)	0.33	0.48	0.67	1.08	1.67	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 per connector.

Mechanical Specifications

Cable Assembly

 Length
 48 in [121.92 cm]

 Width/Diameter
 0.867 in [22.02 mm]

Cable

Cable TypeTFT-5G-402Impedance50 OhmsInner Conductor TypeSolidInner Conductor Material and PlatingCopperDielectric TypePTFE

Number of Shields

Jacket Material FEP, Blue
Jacket Diameter 0.16 in [4

Jacket Diameter0.16 in [4.06 mm]One Time Minimum Bend Radius0.75 in [19.05 mm]





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Connectors

Description	Connector 1	Connector 2	
Туре	4.3-10 Female Bulkhead	N Male	
Impedance	50 Ohms	50 Ohms	
Configuration	Straight	Straight	
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		15 in-lbs 1.7 Nm	

Environmental Specifications

Operating Range Temperature

-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

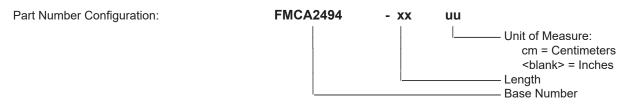




FMCA2494-48

Typical Performance Data

How to Order



Example: FMCA2494-12 = 12 inches long cable

FMCA2494-100cm = 100 cm long cable

Low PIM 4.3-10 Female Bulkhead to N Male 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 4.3-10 Female Bulkhead to N Male Cable TFT-5G-402 Coax in 48 Inch Using Times Microwave Components FMCA2494-48

URL: https://www.fairviewmicrowave.com/low-pim-4.3-10-female-bulkhead-to-n-male-cable-tft-5g-402-coax-in-48-inch-using-times-microwave-components-fmca2494-48-p.aspx

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to impliment improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.

FMCA2494-48 CAD Drawing

Low PIM 4.3-10 Female Bulkhead to N Male Cable TFT-5G-402 Coax in 48 Inch Using Times Microwave Components

