

# FMCA2305 DATA SHEET

# 4.3-10 Male to 4.3-10 Female Bulkhead Low PIM Cable Using TFT-402 Coax Using Times Microwave Components

The 4.3-10 male to 4.3-10 female bulkhead cable using TFT-402 coax, part number FMCA2305, from Fairview Microwave is in-stock and ships same day. This Fairview 4.3-10 to 4.3-10 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 FMCA2305 4.3-10 male to 4.3-10 female 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**

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Description	Min	Т	ур	Max	U	Inits
Frequency Range	DC			5.8		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 Conductor		8.5 [27.89]		Ω/1000ft [Ω/Km]		
OC Resistance Outer Conductor		5.6 [18.37]			$\Omega/1000$ ft [ $\Omega/$ Km]	

#### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.05	0.07	0.1	0.17	0.26	dB
	0.16	0.23	0.33	0.56	0.85	

**Electrical Specification Notes:** 

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1\*SQRT(FGHz) dB per connector.

#### **Mechanical Specifications**

**Cable Assembly** 

Length\* Diameter 0 in [0 mm] 0.867 in [22.02 mm]



# **Configuration:**

- 4.3-10 Male
- 4.3-10 Female Bulkhead
- TFT-402

#### **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

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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 Number of Shields

Shield Layer 1 Silver Plated Copper Braid Shield Layer 2 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	Connector	1 Connector 2		
Туре	4.3-10 Male	4.3-10 Female		
Mount Method		Bulkhead		
Impedance	50 Ohms	50 Ohms		
Mating Cycles	500	500		
Contact Material & Plating	Brass, Silver	Bronze, Silver		
Contact Plating Spec.	200 µin	200 µin		
Dielectric Type	PTFE	PTFE		
Outer Cond Material & Plat	ing	Brass, Tri-Metal		
Outer Cond Plating Spec.		80 µin		
Body Material & Plating	Brass, Tri-Meta	al Brass, Tri-Metal		
Body Plating Spec.	80 μin	80 μin		
Coupling Nut Material & Plating Brass, Tri-Metal				
Coupling Nut Plating Spec.	80 μin			
Torque	44 in-lbs 4.97 Nm			

#### **Environmental Specifications**

**Temperature** 

Operating Range -55 to +85 deg C

**Compliance Certifications** (see product page for current document)

#### **Plotted and Other Data**

Notes:

### **How to Order**

FMCA2305 - xx Part Number Configuration: uu cm = Centimeters <black> = Inches Length

Example: FMCA2305-12 = 12 inches long cable

FMCA2305-100cm = 100 cm long cable





4.3-10 Male to 4.3-10 Female Bulkhead Low PIM Cable Using TFT-402 Coax 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: 4.3-10 Male to 4.3-10 Female Bulkhead Low PIM Cable Using TFT-402 Coax Using Times Microwave Components FMCA2305

URL: https://www.fairviewmicrowave.com/low-pim-4.3-10-male-4.3-10-female-cable-tft-402-coax-fmca2305-p.aspx







