

FMCA2456-12 DATA SHEET

Low PIM RA 7/16 DIN Male to N Female Cable TFT-402 Coax in 12 Inch Using Times Microwave Components

The RA 7/16 DIN male to type N female 12 inch cable using TFT-402 coax, part number FMCA2456-12, from Fairview Microwave is in-stock and ships same day. This Fairview 7/16 DIN to type N 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 FMCA2456-12 7/16 DIN male to type N female 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		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/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.)	0.28	0.3	0.33	0.4	0.49	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 0.12 dB for the right angle connector and 0.1 dB for the straight connector.

Mechanical Specifications

Cable Assembly

Length* Diameter 12 in [304.8 mm] 1.25 in [31.75 mm]



Configuration:

- 7/16 DIN Male Right Angle
- N Female
- 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

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678

Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





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	Connecto	or 1	Connecto	r 2		
Туре	7/16 DIN N	Male	N Female	;		
Impedance	50 Ohm	50 Ohms		50 Ohms		
Mating Cycles			500			
Contact Material & Plating	Brass, Silv	ver	Phosphor Bronze	Phosphor Bronze, Silver		
Contact Plating Spec.	200 µin	1	5 µm			
Dielectric Type	PTFE		PTFE			
Outer Cond Material & Plating			Brass, Tri-Metal			
Outer Cond Plating Spec.			3 μm			
Body Material & Plating	Brass, Tri-M	/letal	Brass, Tri-Me	Brass, Tri-Metal		
Body Plating Spec.	100 μin)	3 µm			
Coupling Nut Material & Pla	oupling Nut Material & Plating Brass, Tri-Meta					
Coupling Nut Plating Spec.	100 µin	100 µin				
Torque	22.083 ft-lbs 2	9.95	m 10 in-lbs 1.13 Nm			

Environmental Specifications

TemperatureOperating Range

-55 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMCA2456 - xx uu

| cm = Centimeters
| chlank> = Inches

Length

Example: FMCA2456-12 = 12 inches long cable

FMCA2456-100cm = 100 cm long cable





Low PIM RA 7/16 DIN Male to N Female Cable TFT-402 Coax in 12 Inch 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 RA 7/16 DIN Male to N Female Cable TFT-402 Coax in 12 Inch Using Times Microwave Components FMCA2456-12

URL: https://www.fairviewmicrowave.com/low-pim-ra-7-16-din-male-n-female-cable-tft-402-coax-fmca2456-12-p.aspx







