



# FMCA2512-50CM

#### Configuration

· Connector 1: 7/16 DIN Male Right Angle

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

#### **Applications**

- General Purpose
- · Laboratory Use

- · Low PIM Applications
- · Indoor and Outdoor Use
- · Plenum Rated Applications

#### Description

The RA 7/16 DIN male to type N male 50 cm cable using TFT-5G-402 coax, part number FMCA2512-50CM, from Fairview Microwave is in-stock and ships same day. This Fairview 7/16 DIN to type N cable assembly has a male 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 FMCA2512-50CM 7/16 DIN male to type N male cable assembly operates to 5.8 GHz. The right angle 7/16 DIN 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.)	0.27	0.33	0.42	0.59	0.85	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\*SQRT(FGHz) dB for the straight connector.

#### **Mechanical Specifications**

#### **Cable Assembly**

Width/Diameter 1.25 in [31.75 mm]

Cable

TFT-5G-402 Cable Type Impedance 50 Ohms Inner Conductor Type Solid Inner Conductor Material and Plating Copper **PTFE** Dielectric Type

Number of Shields

Jacket Material FEP, Blue

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	7/16 DIN Male Right Angle	N Male
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Mating Cycles		500
Contact Material and Plating	Brass, Silver	Brass, Silver
Contact Plating Specification	200 μin	200 μin
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	100 μin	80 μin
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	100 μin	80 μin
Torque	22.083 ft-lbs 29.95 Nm	15 in-lbs 1.7 Nm

# **Environmental Specifications**

Operating Range Temperature

-40 to +125 deg C

Compliance Certifications (see product page for current document)

# **Plotted and Other Data**

Notes:





# FMCA2512-50CM

#### **Typical Performance Data**

#### **How to Order**

Part Number Configuration:

FMCA2512 - xx uu

Unit of Measure:
cm = Centimeters
<br/>
<br/>
<br/>
<br/>
Length
Base Number

Example: FMCA2512-12 = 12 inches long cable

FMCA2512-100cm = 100 cm long cable

Low PIM RA 7/16 DIN Male to N Male Cable TFT-5G-402 Coax in 50 CM 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 7/16 DIN Male to N Male Cable TFT-5G-402 Coax in 50 CM Using Times Microwave Components FMCA2512-50CM

URL: https://www.fairviewmicrowave.com/product/rf-cable-assemblies/low-pim-ra-7-16-din-male-to-n-male-cable-tft-5g-402-coax-in-50-cm-using-times-microwave-components-fmca2512-50cm.html

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