Low PIM 7/16 DIN Female to RA N Male Cable TFT-5G-402 Coax in 48 Inch Using Times Microwave Components

FMCA2505-48

Configuration

- Connector 1: 7/16 DIN Female
- Connector 2: N Male Right Angle
- Cable Type: TFT-5G-402
- Coax 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 7/16 DIN female to RA type N male 48 inch cable using TFT-5G-402 coax, part number FMCA2505-48, from Fairview Microwave is in-stock and ships same day. This Fairview 7/16 DIN 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 FMCA2505-48 7/16 DIN female to type N male cable assembly operates to 5.8 GHz. The right angle type N 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 IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz			-160	dBc

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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.)	0.43	0.54	0.67	0.96	1.38	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 dB per connector.

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 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	2
Jacket Material	FEP, Blue
Jacket Diameter	0.16 in [4.06 mm]
One Time Minimum Bend Radius	0.75 in [19.05 mm]

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Connectors

Description	Connector 1	Connector 2
Type	7/16 DIN Female	N Male Right Angle
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Contact Material and Plating	Brass, Silver	Brass, Silver
Contact Plating Specification	5 µm	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	3 µm	3 µm
Coupling Nut Material and Plating		Brass, Tri-Metal
Coupling Nut Plating Specification		3 µm
Torque	22.083 ft-lbs 29.95 Nm	10 in-lbs 1.13 Nm

Environmental Specifications

Operating Range Temperature -55 to +150 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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FMCA2505-48

Typical Performance Data

How to Order

Part Number Configuration: **FMCA2505 - xx uu**

- **uu** — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- **xx** — Length
- **FMCA2505** — Base Number

Example: FMCA2505-12 = 12 inches long cable
FMCA2505-100cm = 100 cm long cable

Low PIM 7/16 DIN Female to RA 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 7/16 DIN Female to RA N Male Cable TFT-5G-402 Coax in 48 Inch Using Times Microwave Components FMCA2505-48

URL: https://www.fairviewmicrowave.com/product/rf-cable-assemblies/low-pim-7-16-din-female-to-ra-n-male-cable-tft-5g-402-coax-in-48-inch-using-times-microwave-components-fmca2505-48.html

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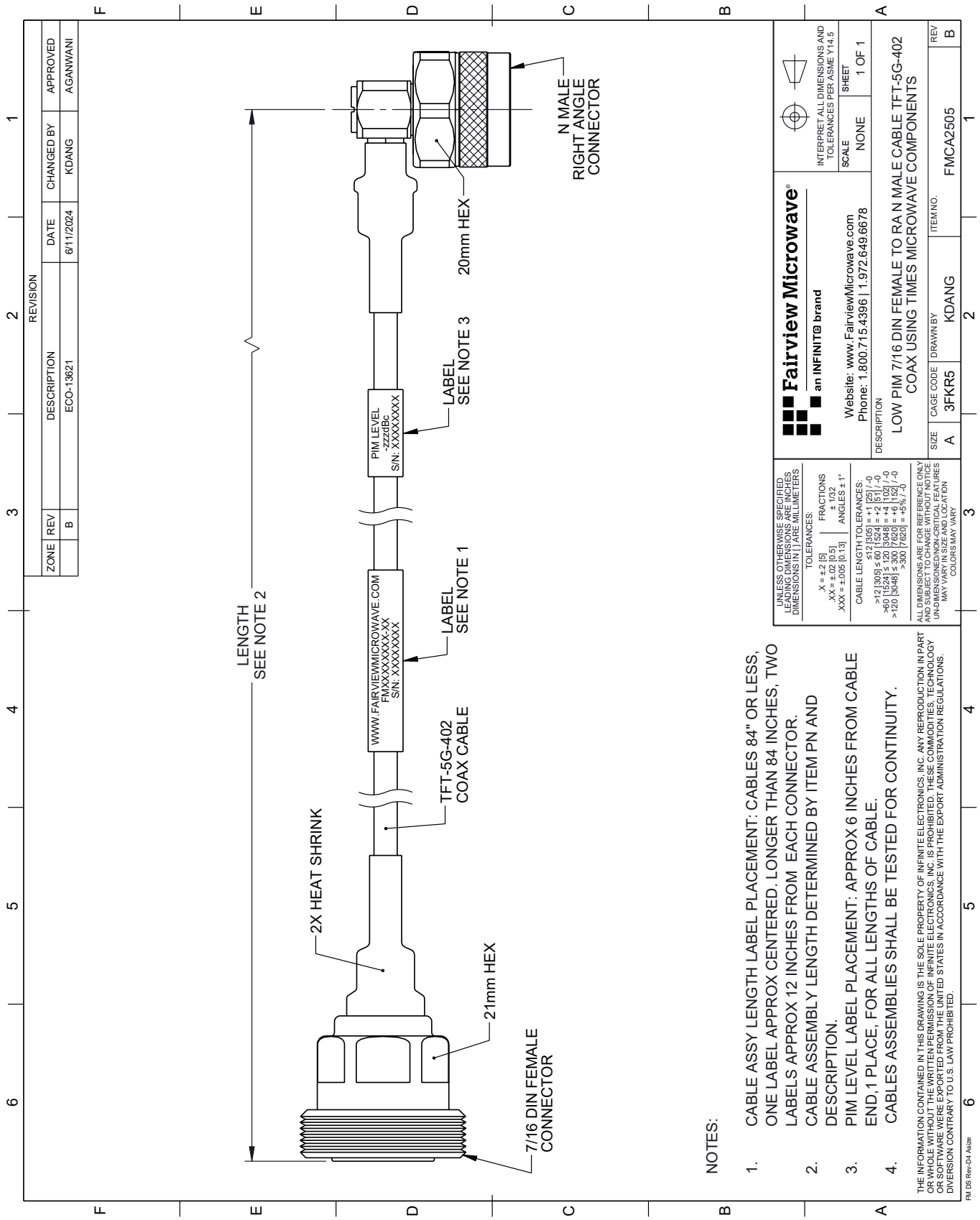
FMCA2505-48 CAD Drawing

Low PIM 7/16 DIN Female to RA N Male Cable TFT-5G-402 Coax in 48 Inch Using Times Microwave Components



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