

Low PIM RA 4.3-10 Male to RA N Male Cable TFT-5G-402 Coax in 24 Inch Using Times Microwave Components



FMCA2503-24

Configuration

- Connector 1: 4.3-10 Male Right Angle
- 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 RA 4.3-10 male to RA type N male 24 inch cable using TFT-5G-402 coax, part number FMCA2503-24, from Fairview Microwave is in-stock and ships same day. This Fairview 4.3-10 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 FMCA2503-24 4.3-10 male to type N male cable assembly operates to 5.8 GHz. The right angle 4.3-10 and right angle type N interfaces on the TFT-5G-402 cable allow 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	0.34	0.44	0.64	0.94	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 for the 4.3-10 connector and 0.1 dB for the N connector.

Mechanical Specifications

Cable Assembly

Width/Diameter

0.86 in [21.84 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	4.3-10 Male Right Angle	N Male Right Angle
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Right Angle
Mating Cycles	500	
Contact Material and Plating	Brass, Silver	Brass, Silver
Contact Plating Specification	200 µin	5 µm
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	80 µin	3 µm
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	80 µin	3 µm
Torque	44 in-lbs 4.97 Nm	10 in-lbs 1.13 Nm

Environmental Specifications

Operating Range Temperature-40 to +85 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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FMCA2503-24

Typical Performance Data

How to Order

Part Number Configuration:

FMCA2503

- xx

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Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

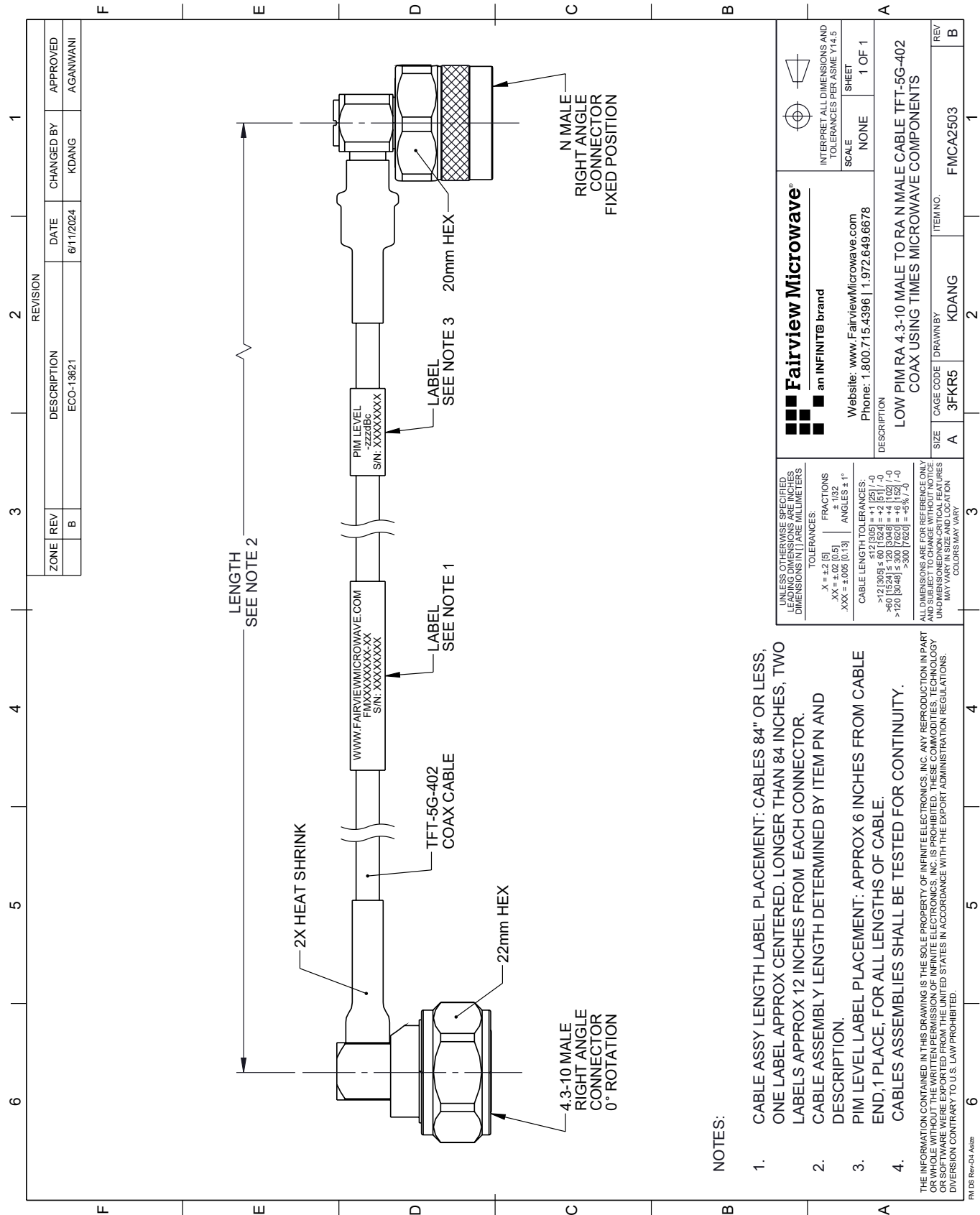
Example: FMCA2503-12 = 12 inches long cable
FMCA2503-100cm = 100 cm long cable

Low PIM RA 4.3-10 Male to RA N Male Cable TFT-5G-402 Coax in 24 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 RA 4.3-10 Male to RA N Male Cable TFT-5G-402 Coax in 24 Inch Using Times Microwave Components FMCA2503-24](#)

URL: <https://www.fairviewmicrowave.com/product/rf-cable-assemblies/low-pim-ra-4.3-10-male-to-ra-n-male-cable-tft-5g-402-coax-in-24-inch-using-times-microwave-components-fmca2503-24.html>

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 implement 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.



NOTES:

- CABLE ASSY LENGTH LABEL PLACEMENT: CABLES 84" OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 84 INCHES, TWO LABELS APPROX 12 INCHES FROM EACH CONNECTOR.
- CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
- PIM LEVEL LABEL PLACEMENT: APPROX 6 INCHES FROM CABLE END, 1 PLACE, FOR ALL LENGTHS OF CABLE.
- CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS.		Fairview Microwave® an INFINIT® brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
TOLERANCES:		Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678		SCALE NONE	
X = ±.2 (5) .XX = ±.02 (0.5) .XXX = ±.005 (0.13)		FRACTIONS ± 1/32 ANGLES ± 1°		SHEET 1 OF 1	
CABLE LENGTH TOLERANCES:		DESCRIPTION LOW PIM RA 4.3-10 MALE TO RA N MALE CABLE TFT-5G-402 COAX USING TIMES MICROWAVE COMPONENTS		REV B	
>12 (305) ≤ 60 (1524) = ±.1 (25) / -0 >60 (1524) ≤ 120 (3048) = ±.1 (25) / -0 >120 (3048) ≤ 300 (7620) = ±.1 (25) / -0		ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED/NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.		ITEM NO. FMCA2503	
SIZE A		CAGE CODE 3FKR5		DRAWN BY KDANG	