

# Fire Rated Low PIM RA N Male to RA N Male Cable SPF-500 Coax in 24 Inch Using Times Microwave Parts

The RA type N male to RA type N male 24 inch cable using SPF-500 coax, part number FMCA2046-24, from Fairview Microwave is in-stock and ships same day. This Fairview type N to type N cable assembly has a male to male gender configuration with 50 ohm corrugated SPF-500 coax. Fairview Microwave's corrugated RF cable assemblies are ideal for applications where durability and high power are needed. Our low PIM design offers excellent passive intermodulation performance with PIM levels better than -160 dBc. The FMCA2046-24 type N male to type N male cable assembly operates to 6 GHz. The right angle type N interfaces on the SPF-500 cable allow for easier connections in tight spaces. Times Microwave cable is used in each assembly and TMS components are used to form connections with the super flexible low PIM cable. These cable assemblies are expertly built to satisfy your specific need with high quality Times Microwave Systems manufactured parts.

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**

Min	T	ур	Max	Units	
DC			6	GHz	
			1.4:1		
	83		%		
-165		.65	-160	dBc	
	24 [78.74]		pF/ft [pF/m]		
		DC 8	DC 83 -165	DC 6 1.4:1 83 -165 -160	DC 6 GHz  1.4:1  83 %  -165 -160 dBc

#### **Performance by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2	6		GHz
Insertion Loss (Max.)	0.2	0.27	0.39	0.69		dB

**Electrical Specification Notes:** 

PIM test results vary between cables

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1\*SQRT(FGHz) dB per connector.

#### **Mechanical Specifications**

#### **Cable Assembly**

Length\* 24 in [609.6 mm]

Cable

Cable Type SPF-500 Impedance 50 Ohms

## FMCA2046-24 DATA SHEET



## **Configuration:**

- N Male Right Angle
- TC-SPO500-NM-RA-LP
- N Male Right Angle
- TC-SPO500-NM-RA-LP
- SPF-500

#### **Features:**

- Max Frequency 6 GHz
- Low PIM: -160 dBc Max
- 83% Phase Velocity
- FRPE Jacket
- 100% Tested with PIM Test Results Marked on Cable
- Lightweight and Extremely Flexible
- Low Loss with Excellent VSWR
- IP67 (when mated)
- Using Times Microwave Components

## **Applications:**

- General Purpose
- Laboratory Use
- Low PIM Applications
- Distributed Antenna Systems (DAS)
- Multi-Carrier Communication Systems
- PIM Testing

## Cable Diagram:

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





Inner Conductor Type

Inner Conductor Material and Plating

Dielectric Type Number of Shields Shield Layer 1

Outer Conductor Material and Plating

Jacket Material

Jacket Diameter

Solid

Copper Clad Aluminum

Foam PE

1

Helically Corrugated Copper Tube

Copper FRPE, Black

0.545 in [13.84 mm]

One Time Minimum Bend Radius

2.25 in [57.15 mm]

#### **Connectors**

Description	Connector 1	Connector 2
Туре	N Male	N Male
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Silver	Brass, Silver
Contact Plating Spec.	200 μin	200 μin
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Spec.	80 μin	80 μin
Torque	10 in-lbs 1.13 Nr	n 10 in-lbs 1.13 Nm

## **Environmental Specifications**

**Temperature** 

Operating Range Storage Range -55 to +200 deg C -55 to +200 deg C

**Environmental Specification Notes:** 

CMR (Riser) Fire Rated

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

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

Notes:

· Values at 25°C, sea level.

#### **How to Order**

Part Number Configuration:

Example: FMCA2046-12 = 12 inches long cable

FMCA2046-100cm = 100 cm long cable

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Fire Rated Low PIM RA N Male to RA N Male Cable SPF-500 Coax in 24 Inch Using Times Microwave Parts 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: Fire Rated Low PIM RA N Male to RA N Male Cable SPF-500 Coax in 24 Inch Using Times Microwave Parts FMCA2046-24

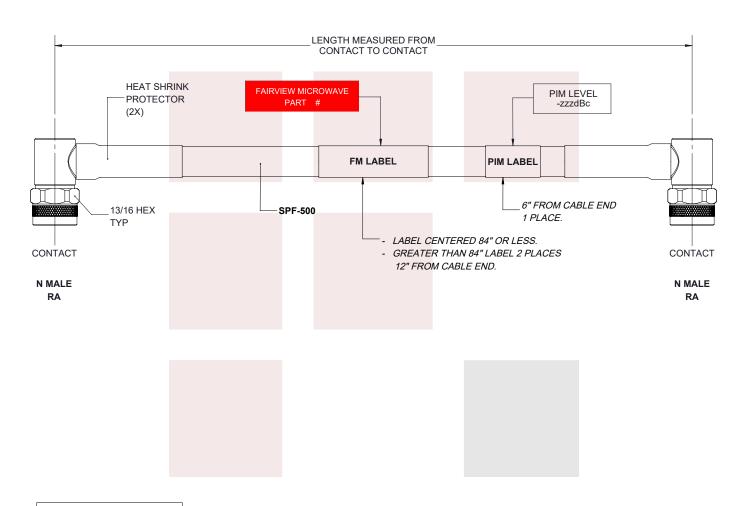
URL: https://www.fairviewmicrowave.com/low-pim-ra-n-male-ra-n-male-cable-spf500-coax-fmca2046-24-p.aspx



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STANDARD TOLERANCES

.X ±0.2 .XX ±0.01 .XXX ±0.005

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

Fairview Microwave	NOTES:  1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  3. DIMENSIONS ARE IN INCHES [mm].					
TITLE	DWG NO FMCA2046			CAGE CODE 3FKR5		
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