

FMCA2042 DATA SHEET

Outdoor Rated Low PIM N Male to RA N Male Cable SPO-500 Coax Using Times Microwave Parts

The type N male to RA type N male cable using SPO-500 coax, part number FMCA2042, 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 SPO-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 FMCA2042 type N male to type N male cable assembly operates to 6 GHz. The right angle type N interface on the SPO-500 cable allows 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

Description	Min	Т	ур	Мах	Units
Frequency Range	DC			6	GHz
VSWR				1.4:1	
Velocity of Propagation		8	33		%
Passive Intermodulation		-1	L65	-160	dBc
Capacitance		24 []	78.74]		pF/ft [pF/m]

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2	6		GHz
Insertion Loss (Max	.) 0.024	0.035	0.051	0.096		dB/ft
	0.08	0.11	0.17	0.31		dB/m

Electrical Specification Notes:

PIM test results vary between cables

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1*SQRT(FGHz) dB per connector.

Mechanical Specifications

Cable Assembly Length*

0 in [0 mm]

Cable Cable Type Impedance

SPO-500 50 Ohms



Configuration:

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

Features:

- Max Frequency 6 GHz
- Low PIM: -160 dBc Max
- 83% Phase Velocity
- PE 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 PE, Black 0.53 in [13.46 mm]

One Time Minimum Bend Radius

2.25 in [57.15 mm]

Connectors

Description	Connector 1	Connector 2	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-Meta	al
Body Plating Spec.	80 µin	80 µin	
Coupling Nut Material & Pla	iting Brass, Tri-Metal		
Coupling Nut Plating Spec.	80 µin		
Torque	10 in-lbs 1.13 N	m 10 in-lbs 1.1 <mark>3 M</mark>	١m

Environmental Specifications

Temperature **Operating Range** Storage Range

-55 to +200 deg C -55 to +200 deg C

Compliance Certifications (see product page for current document)

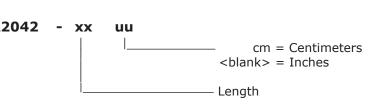
Plotted and Other Data

Notes: • Values at 25°C, sea level.

How to Order

Part Number Configuration:

FMCA2042 - xx



Example: FMCA2042-12 = 12 inches long cable FMCA2042-100cm = 100 cm long cable

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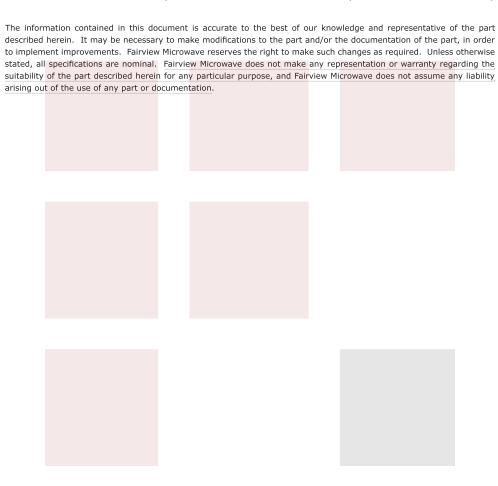




Outdoor Rated Low PIM N Male to RA N Male Cable SPO-500 Coax Using Times Microwave Parts from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

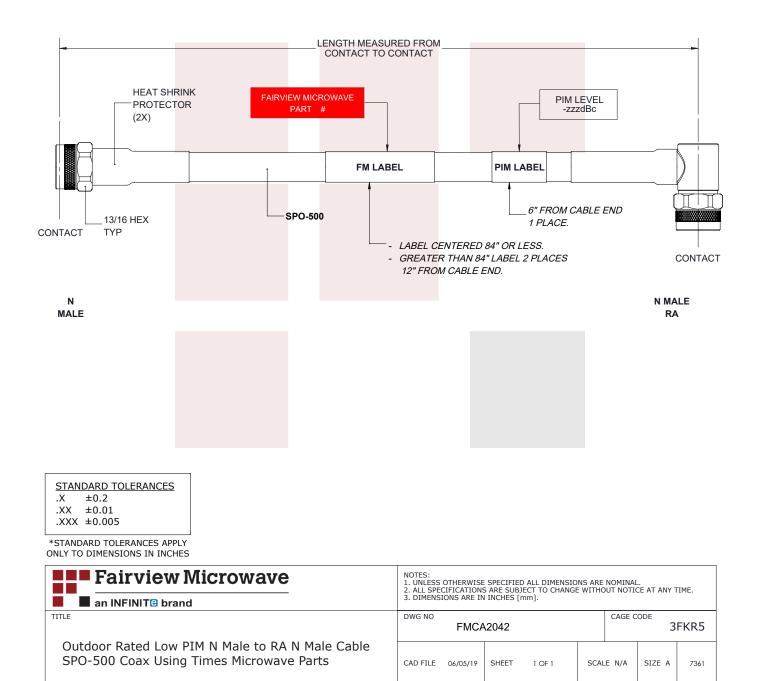
Click the following link to obtain additional part information: Outdoor Rated Low PIM N Male to RA N Male Cable SPO-500 Coax Using Times Microwave Parts FMCA2042

URL: https://www.fairviewmicrowave.com/low-pim-n-male-ra-n-male-cable-spo500-coax-fmca2042-p.aspx









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