

Outdoor Rated Low PIM N Male to N Male Cable SPO-500 Coax in 150 cm Using Times Microwave Parts

FMCA2041-150CM

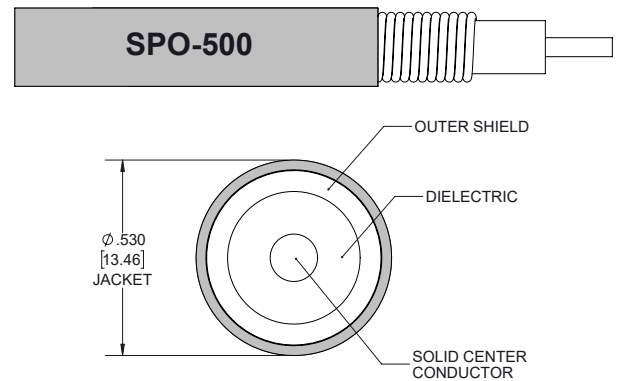


Configuration

- Connector 1: N Male TC-500-NM-LP
- Connector 2: N Male TC-500-NM-LP
- Cable Type: SPO-500
- Coax Flex Type: Corrugated

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

Description

The type N male to type N male 150 cm cable using SPO-500 coax, part number FMCA2041-150CM, 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 FMCA2041-150CM type N male to type N male cable assembly operates to 6 GHz. 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	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.4:1	
Velocity of Propagation		83		%
Passive Intermodulation		-165	-160	dBc
IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz				

Outdoor Rated Low PIM N Male to N Male Cable

SPO-500 Coax in 150 cm Using Times Microwave Parts



FMCA2041-150CM

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Capacitance		24 [78.74]		pF/ft [pF/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2	6		GHz
Insertion Loss (Max.)	0.27	0.38	0.54	0.97		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

59.05 in [149.99 cm]

Cable

Cable Type

SPO-500

Impedance

50 Ohms

Inner Conductor Type

Solid

Inner Conductor Material and Plating

Copper Clad Aluminum

Dielectric Type

Foam PE

Number of Shields

1

Shield Layer 1

Helically Corrugated Copper Tube

Outer Conductor 1 Material and Plating

Copper

Jacket Material

PE, Black

Jacket Diameter

0.53 in [13.46 mm]

One Time Minimum Bend Radius

2.25 in [57.15 mm]

Outdoor Rated Low PIM N Male to N Male Cable SPO-500 Coax in 150 cm Using Times Microwave Parts

FMCA2041-150CM



Connectors

Description	Connector 1	Connector 2
Type	N Male	N Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
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	80 µin	80 µin
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	80 µin	80 µin
Torque	10 in-lbs 1.13 Nm	10 in-lbs 1.13 Nm

Environmental Specifications

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

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

Plotted and Other Data

Notes:
Values at 25°C, sea level.

Outdoor Rated Low PIM N Male to N Male Cable
SPO-500 Coax in 150 cm Using Times Microwave Parts

FMCA2041-150CM



Typical Performance Data



Outdoor Rated Low PIM N Male to N Male Cable SPO-500 Coax in 150 cm Using Times Microwave Parts

FMCA2041-150CM



How to Order

Part Number Configuration: **FMCA2041 - xx uu**

Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number

Example: FMCA2041-12 = 12 inches long cable
FMCA2041-100cm = 100 cm long cable

Outdoor Rated Low PIM N Male to N Male Cable SPO-500 Coax in 150 cm Using Times Microwave Parts 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: [Outdoor Rated Low PIM N Male to N Male Cable SPO-500 Coax in 150 cm Using Times Microwave Parts FMCA2041-150CM](https://www.fairviewmicrowave.com/low-pim-n-male-n-male-cable-spo500-coax-fmca2041-150cm-p.aspx)

URL: <https://www.fairviewmicrowave.com/low-pim-n-male-n-male-cable-spo500-coax-fmca2041-150cm-p.aspx>

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.

