Fairview Microwave
an INFINITE brand

FMCA2036
DATA SHEET

Plenum Low PIM 4.3-10 Male to N Male Cable SPP-500-LLPL Coax Using Times Microwave Parts and RoHS

The 4.3-10 male to type N male cable using SPP-500-LLPL coax, part number FMCA2036, 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 corrugated SPP-500-LLPL 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 FMCA2036 4.3-10 male to type N male cable assembly operates to 5.8 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	Min	Typ	Max	Units
Frequency Range	DC		5.8	GHz
VSWR			1.4:1	
Velocity of Propagation		76		%
Passive Intermodulation		-165	-160	dBc
Capacitance		26.2 [85.96]		pF/ft [pF/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Unit
Frequency	0.45	0.7	1	2.5	5.8	GHz
Insertion Loss (Max.)	0.023	0.029	0.035	0.058	0.092	dB/ft
	0.08	0.1	0.11	0.19	0.3	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

Description	Min	Typ	Max	Units
Cable Outer Diameter		0.5		
One Time Min Bend Radius	1.5			in

Configuration:

- Connector 1: TC-SPP500-4310M-LP (4.3-10 Male)
- Connector 2: TC-SPP500-NM-LP (N Male)
- Cable: SPP-500-LLPL

Features:

- Max Frequency 5.8 GHz
- Low PIM: -160 dBc Max
- 76% Phase Velocity
- FEP Jacket
- 100% Tested with PIM Test Results Marked on Cable
- UL910 Plenum Rated 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)
- Plenum Installations
- Multi-Carrier Communication Systems
- PIM Testing

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Cable Characteristics

Component	Specification
Cable Type	SPP-500-LLPL
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Mat. & Plat.	Copper Clad Aluminum
Dielectric Type	PTFE
Number of Shields	1
Shield Layer 1	Helically Corrugated Copper Tube
Outer Conductor Mat. & Plat.	Copper
Jacket Material	FEP, Blue

Connector Characteristics

Description	Connector 1	Connector 2
Type	4.3-10 Male	N Male
Impedance	50 Ohms	50 Ohms
Contact Mat. & Plat.	Brass, Silver	Brass, Silver
Contact Plating Spec.	200 µin	200 µin
Dielectric Type	PTFE	PTFE
Body Mat. & Plat.	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Spec.	80 µin	80 µin
Coupling Nut Mat. & Plat.	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Spec.	80 µin	80 µin
Torque	44.25 in-lbs [5 Nm]	10 in-lbs [1.13 Nm]

Environmental Specifications

Description	Specification
Temperature Operating Range	-55 to +200 deg C
Temperature Storage Range	-55 to +200 deg C
Plenum Rating	UL910

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

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Typical Performance Data

How to Order

Part Number Configuration: **FMCA2036 - xx uu**

- **uu**: cm = Centimeters; <blank> = Inches
- **xx**: Length

Example: FMCA2036-12 = 12 inches long cable
FMCA2036-100cm = 100 cm long cable

Plenum Low PIM 4.3-10 Male to N Male Cable SPP-500-LLPL Coax Using Times Microwave Parts and RoHS from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: Plenum Low PIM 4.3-10 Male to N Male Cable SPP-500-LLPL Coax Using Times Microwave Parts and RoHS FMCA2036

URL: https://www.fairviewmicrowave.com/low-pim-4.3-10-male-n-male-cable-spp500llpl-coax-fmca2036-p.aspx

The information contained in 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 any liability arising out of the use of any part or documentation.

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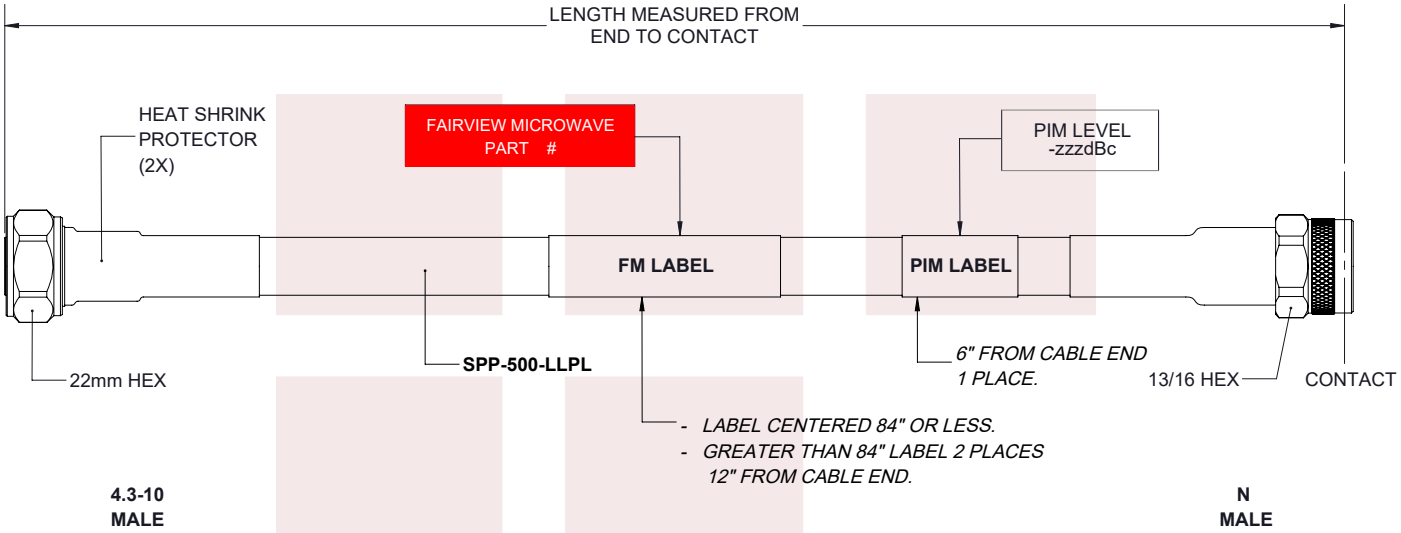

STANDARD TOLERANCES	
.X	±0.2
.XX	±0.01
.XXX	±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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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	CAGE CODE
Plenum Low PIM 4.3-10 Male to N Male Cable SPP-500-LLPL Coax Using Times Microwave Parts and RoHS	FMCA2036	3FKR5

CAD FILE	06/05/19	SHEET	1 OF 1	SCALE	N/A	SIZE	A	7361

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