

Plenum Low PIM RA 7/16 DIN Male to N Female Cable SPP-250-LLPL Coax in 50 cm Using Times Microwave Parts

The RA 7/16 DIN male to type N female 50 cm cable using SPP-250-LLPL coax, part number FMCA1866-50CM, from Fairview Microwave is in-stock and ships same day. This Fairview 7/16 DIN to type N cable assembly has a male to female gender configuration with 50 ohm corrugated SPP-250-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 FMCA1866-50CM 7/16 DIN male to type N female cable assembly operates to 5.8 GHz. The right angle 7/16 DIN interface on the SPP-250-LLPL 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	Тур Мах			Units		
Frequency Range	DC			5.8	GHz		
VSWR				1.4:1			
Velocity of Propagation		7	6		%		
RF Shielding	100				dB		
Passive Intermodulation		-1	65	-160	dBc		
Capacitance		27 [88.58]			pF/ft [pF/m]		
Inductance		0.067 [0.22]			uH/ft [uH/m]		
DC Resistance Inner Conductor		3 [9.84]			Ω/1000ft [Ω/Km]		

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.45	0.7	1	2.5	5.8	GHz
Insertion Loss (Max.)	0.27	0.28	0.3	0.36	0.45	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 dB per connector.

Mechanical Specifications

Cable Assembly

Length*

19.685 in [500 mm]

FMCA1866-50CM DATA SHEET



Configuration:

- 7/16 DIN Male Right Angle
- TC-SPP250-716M-RA-LP
- N Female
- TC-SPP250-NF-LP
- SPP-250-LLPL

Features:

- Max Frequency 5.8 GHz
- Low PIM: -160 dBc Max
- Shielding Effectivity > 100 dB
- 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

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





Cable

Cable Type
Impedance
Inner Conductor Type
Inner Conductor Material and Plating

Dielectric Type Number of Shields Shield Layer 1

Outer Conductor Material and Plating

Outer Conductor Diameter

Jacket Material

Jacket Diameter

50 Ohms Solid Copper PTFE 1

SPP-250-LLPL

Helically Corrugated Copper Tube

Copper

0.25 in [6.35 mm]

FEP, Blue

0.28 in [7.11 mm]

One Time Minimum Bend Radius

Bending Moment

1.25 in [31.75 mm] 0.8 lbs-ft [1.08 N-m]

Connectors

Connector 1	Connector 2
7/16 DIN Male	N Female
50 Ohms	50 Ohms
Brass, Silver	Phosphor Bronze, Silver
196µ in	196µ in
PTFE	PTFE
ng	Brass, Tri-Metal
	118µ in
Brass, Nickel	Brass, Tri-Metal
118µ in	118µ in
ting Brass, Nickel	
118µ in	
22.127 ft-lbs 30 N	Nm 10 in-lbs 1.13 Nm
	7/16 DIN Male 50 Ohms Brass, Silver 196µ in PTFE ng Brass, Nickel 118µ in Brass, Nickel 118µ in

Environmental Specifications

Temperature

Operating Range -55 to +200 deg C
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.

301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689

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How to Order

Part Number Configuration:	FMCA1866	- xx	uu	
			l	cm = Centimeters <blank> = Inches</blank>
				——— Length

Example: FMCA1866-12 = 12 inches long cable FMCA1866-100cm = 100 cm long cable

Plenum Low PIM RA 7/16 DIN Male to N Female Cable SPP-250-LLPL Coax in 50 cm 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: Plenum Low PIM RA 7/16 DIN Male to N Female Cable SPP-250-LLPL Coax in 50 cm Using Times Microwave Parts FMCA1866-50CM

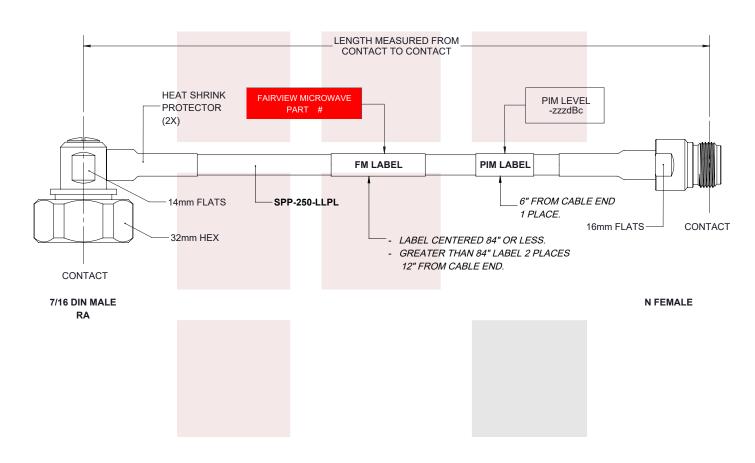
URL: https://www.fairviewmicrowave.com/low-pim-ra-7-16-male-n-female-cable-spp250llpl-coax-fmca1866-50cm-p.aspx

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

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].						
Plenum Low PIM RA 7/16 DIN Male to N Female Cable SPP-250-LLPL Coax in 50 cm Using Times Microwave Parts	DWG NO FMCA1866				CAGE CODE 3FKR5		
	CAD FILE 06/05/19	SHEET 1 OF 1	SCAL	E N/A	SIZE A	7361	