Fairview Microwave

# FMCA1848-48 DATA SHEET

an INFINIT<sup>©</sup> brand

# Plenum Low PIM Snap-On 4.3-10 Male to Snap-On 4.3-10 Male Cable SPP-250-LLPL Coax in 48 Inch Using Times Microwave Parts

The 4.3-10 male snap-on to 4.3-10 male snap-on 48 inch cable using SPP-250-LLPL coax, part number FMCA1848-48, from Fairview Microwave is in-stock and ships same day. This Fairview 4.3-10 to 4.3-10 cable assembly has a male to male 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 FMCA1848-48 4.3-10 male to 4.3-10 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	Т	ур	Мах	Units		
Frequency Range	DC			5.8	GHz		
VSWR				1.4:1			
Velocity of Propagation		-	76			%	
RF Shielding	100					dB	
Passive Intermodulation		-1	165	-160		dBc	
Capacitance		27 [88.58]		pF/ft [pF/m]			
Inductance		0.067 [0.22]		uH/ft	uH/ft [uH/m]		
DC Resistance Inner Cor	ductor	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	.) 0.038	0.048	0.057	0.094	0.148	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\*

48 in [121.92 cm]



# **Configuration:**

- Snap-On4.3-10 Male
- TC-SPP250-4310MS-LP
- Snap-On4.3-10 Male
- TC-SPP250-4310MS-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

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### Cable

SPP-250-LLPL				
50 Ohms				
Solid				
Copper				
PTFE				
1				
Helically Corrugated Copper Tube				
Copper				
0.25 in [6.35 mm]				
FEP, Blue				
0.28 in [7.11 mm]				
1.25 in [31.75 mm]				
0.8 lbs-ft [1.08 N-m]				

### Connectors

Description	Connector 1	Connector 2
Туре	4.3-10 Male	4.3-10 Male
Impedance	50 Ohms	50 Ohms
Connection Method	Snap-On	Snap-On
Contact Material & Plating	Brass, Silver	Brass, Silver
Contact Plating Spec.	200µ in	200µ in
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Spec.	80µ in	80µ in
Coupling Nut Material & Pla	ting Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Spec.	80µ in	80µ in
Torque	44.25 in-lbs 5 Nm	1 44.25 in-lbs 5 Nm

### **Environmental Specifications**

Temperature
Operating Range
Storage Range
Plenum Rating

-55 to +200 deg C -55 to +200 deg C UL910

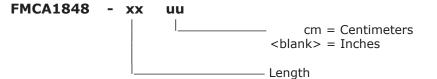
Compliance Certifications (see product page for current document)

### **Plotted and Other Data**

- Notes:
- Values at 25°C, sea level.

### How to Order

Part Number Configuration:



Example: FMCA1848-12 = 12 inches long cable FMCA1848-100 cm = 100 cm long cable

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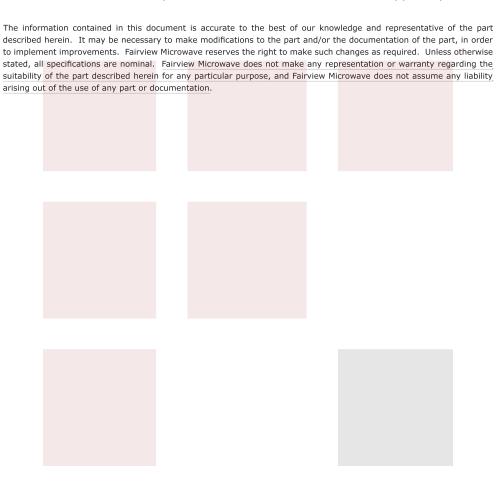




Plenum Low PIM Snap-On 4.3-10 Male to Snap-On 4.3-10 Male Cable SPP-250-LLPL Coax in 48 Inch Using Times Microwave Parts from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: Plenum Low PIM Snap-On 4.3-10 Male to Snap-On 4.3-10 Male Cable SPP-250-LLPL Coax in 48 Inch Using Times Microwave Parts FMCA1848-48

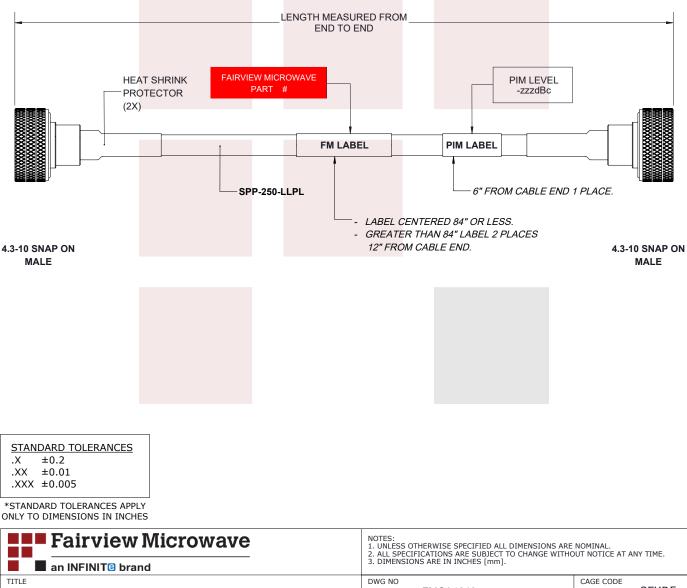
URL: https://www.fairviewmicrowave.com/low-pim-4.3-10-male-4.3-10-male-cable-spp250llpl-coax-fmca1848-48-p.aspx



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# 3. DIMENSIONS ARE IN INCHES [mm]. CAGE CODE DWG NO FMCA1848 CAGE CODE CAD FILE 06/05/19 SHEET 1 OF 1 SCALE N/A SIZE A 7361

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