

FMCA1864 DATA SHEET

Plenum Low PIM 7/16 DIN Male to SMA Male Cable SPP-250-LLPL Coax Using Times Microwave Parts

The 7/16 DIN male to SMA male cable using SPP-250-LLPL coax, part number FMCA1864, from Fairview Microwave is in-stock and ships same day. This Fairview 7/16 DIN to SMA 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 FMCA1864 7/16 DIN male to SMA 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	Max	Units		
Frequency Range	DC			5.8		GHz	
VSWR				1.4:1			
Velocity of Propagation		7	76			%	
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	.) 0.038	0.048	0.057	0.094	0.148	dB/ft
	0.12	0.16	0.19	0.31	0.49	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 for the 7/16 DIN male connector and 0.15 dB for the SMA male connector.

Mechanical Specifications

Cable Assembly Length*

0 in [0 mm]



Configuration:

- 7/16 DIN Male
- TC-250-716M-LP
- SMA Male
- TC-SPP250-SM-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:

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Cable

Cable	
Cable Type	SPP-250-LLPL
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper
Dielectric Type	PTFE
Number of Shields	1
Shield Layer 1	Helically Corrugated Copper Tube
Outer Conductor Material and Plating	Copper
Outer Conductor Diameter	0.25 in [6.35 mm]
Jacket Material	FEP, Blue
Jacket Diameter	0.28 in [7.11 mm]
One Time Minimum Bend Radius	1.25 in [31.75 mm]
Bending Moment	0.8 lbs-ft [1.08 N-m]

Connectors

Description	Connector 1	Connector 2	
Туре	7/16 DIN Male	SMA Male	
Impedance	50 Ohms	50 Ohms	
Contact Material & Plating	Brass, Silver	Brass, Silver	
Contact Plating Spec.	200 µin	196 µin	
Dielectric Type	PTFE	PTFE	
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal	
Body Plating Spec.	80 µin	118 µin	
Coupling Nut Material & Plat	ing Brass, Nickel	Brass, Tri-Metal	
Coupling Nut Plating Spec.	80 µin	118 µin	
Torque	22.127 ft-lbs 30 N	m 10 in-lbs 1.13 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:

FMCA1864 - xx



Example: FMCA1864-12 = 12 inches long cable FMCA1864-100 cm = 100 cm long cable

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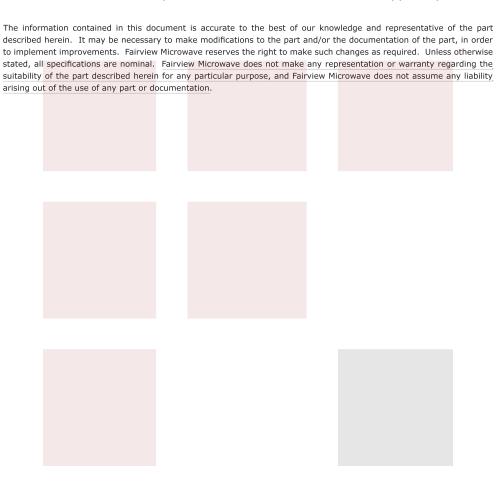




Plenum Low PIM 7/16 DIN Male to SMA Male Cable SPP-250-LLPL Coax Using Times Microwave Parts from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

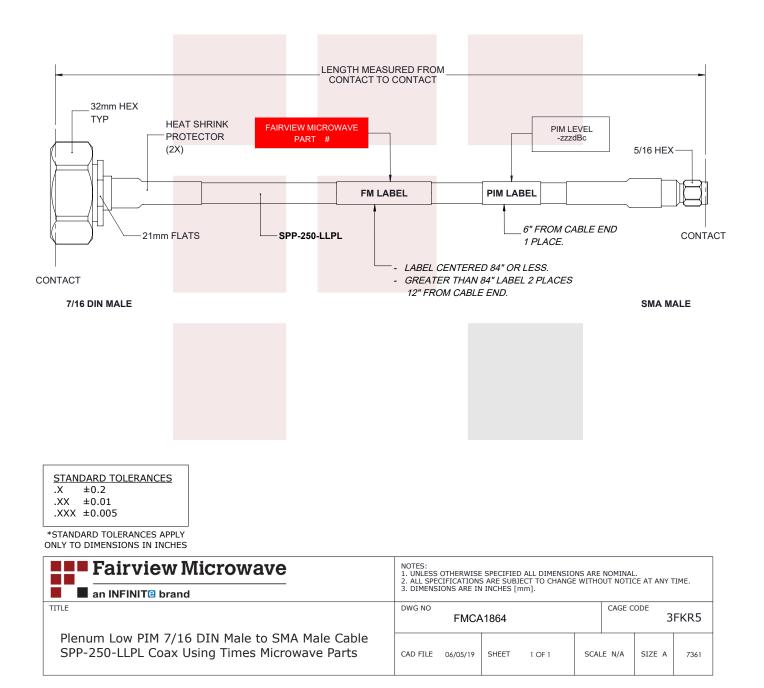
Click the following link to obtain additional part information: Plenum Low PIM 7/16 DIN Male to SMA Male Cable SPP-250-LLPL Coax Using Times Microwave Parts FMCA1864

URL: https://www.fairviewmicrowave.com/low-pim-7-16-din-male-sma-male-cable-spp250llpl-coax-fmca1864-p.aspx









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