

Low PIM SMA Male to SMA Female Plenum Cable SPP-250-LLPL Coax with LF Solder

FMCA1813

Configuration

Connector 1: SMA Male
Connector 2: SMA Female
Cable Type: SPP-250-LLPL
Coax Flex Type: Corrugated

Features

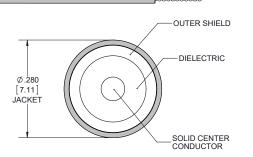
- Max Frequency 5.8 GHz
- Low PIM: -155 dBc Max
- Shielding Effectivity > 100 dB
- 76% Phase Velocity
- · FEP Jacket
- IP67 (Mated)
- · Low Loss with Excellent VSWR
- · PIM Test Results Marked on Each Cable
- UL910 Plenum Rated Cable
- · Extremely Flexible and Lightweight

Applications

- · General Purpose
- Laboratory Use
- Low PIM Applications

- DAS
- Mobile Networks
- · In-Building Wireless

SPP-250-LLPL



- · Small Cells
- · PIM Testing

Description

The SMA male to SMA female cable using SPP-250-LLPL coax, part number FMCA1813, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA 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 -155 dBc. The FMCA1813 SMA male to SMA female cable assembly operates to 5.8 GHz.

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		5.8	GHz
VSWR			1.4:1	
Velocity of Propagation		76		%
RF Shielding	100			dB
Passive Intermodulation			-155	dBc
IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz				



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Capacitance		27 [88.58]		pF/ft [pF/m]
Inductance		0.067 [0.22]		uH/ft [uH/m]
DC Resistance Inner Conductor		3 [9.84]		Ohms/1000ft [Ohms/Km]

Specifications 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:

Insertion loss does not include the loss of the connectors. Insertion loss is estimated as 0.04*SQRT(FGHz) dB per connector.

Mechanical Specifications

Cable Assembly

Length 0 in [0 mm]

Cable

Cable Type SPP-250-LLPL 50 Ohms Impedance Inner Conductor Type Solid Inner Conductor Material and Plating Copper Dielectric Type **PTFE** Number of Shields Outer Conductor 1 Material and Plating Copper Jacket Material FEP, Blue

Jacket Diameter 0.28 in [7.11 mm] One Time Minimum Bend Radius 1.25 in [31.75 mm] 0.8 lbs-ft [1.08 N-m] **Bending Moment**

Connectors

Description	Connector 1	Connector 2	
Туре	SMA Male	SMA Female	
Impedance	50 Ohms	50 Ohms	
Configuration	Straight	Straight	
Contact Material and Plating	Brass, Gold	Beryllium Copper, Silver	
Dielectric Type	PTFE	PTFE	
Outer Conductor Material and Plating		Brass, Tri-Metal	
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal	
Coupling Nut Material and Plating	Brass, Tri-Metal		





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Environmental Specifications

Operating Range Temperature

-55 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data





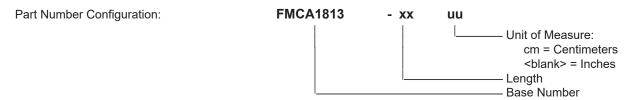


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How to Order



Example: FMCA1813-12 = 12 inches long cable FMCA1813-100cm = 100 cm long cable

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For additional information on this product, please click the following link: Low PIM SMA Male to SMA Female Plenum Cable SPP-250-LLPL Coax with LF Solder FMCA1813

URL: https://www.fairviewmicrowave.com/sma-male-sma-female-cable-spp250llpl-coax-fmca1813-p.aspx

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