

## FMCA1817-48

## Configuration

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

#### **Features**

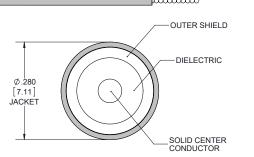
- Max Frequency 5.8 GHz
- Low PIM: -155 dBc Max
- Shielding Effectivity > 100 dB
- 76% Phase Velocity
- · FEP Jacket
- · IP67 (Mated)
- · Low Loss with Excellent VSWR
- · PIM Test Results Marked on Each Cable
- UL910 Plenum Rated Cable
- · Extremely Flexible and Lightweight

# **Applications**

- · General Purpose
- Laboratory Use
- · Low PIM Applications

- DAS
- Mobile Networks
- · In-Building Wireless

## SPP-250-LLPL



- Small Cells
- PIM Testing

#### **Description**

The type N male to SMA male 48 inch cable using SPP-250-LLPL coax, part number FMCA1817-48, from Fairview Microwave is in-stock and ships same day. This Fairview type N 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 -155 dBc. The FMCA1817-48 type N male to SMA male 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.)	0.21	0.26	0.31	0.51	0.79	dB

Electrical Specification Notes:

The insertion loss data above is based on the performance specifications of the coax cable used in this assembly. The insertion loss includes an estimated insertion loss of 0.04\*SQRT(FGHz) dB maximum per connector.

#### **Mechanical Specifications**

#### **Cable Assembly**

Length 48 in [121.92 cm] Weight 0.397 lbs [180.08 g]

#### 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 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] **Bending Moment** 0.8 lbs-ft [1.08 N-m]

#### **Connectors**

Description	Connector 1	Connector 2	
Туре	N Male	SMA Male	
Impedance	50 Ohms	50 Ohms	
Configuration	Straight	Straight	
Contact Material and Plating	Phosphor Bronze, Silver	Brass, Gold	
Dielectric Type	PTFE	PTFE	
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal	
Coupling Nut Material and Plating	Brass, Tri-Metal	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** 



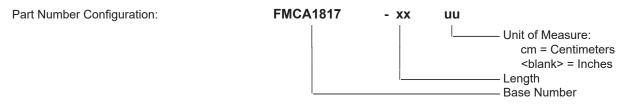






#### FMCA1817-48

#### **How to Order**



Example: FMCA1817-12 = 12 inches long cable FMCA1817-100cm = 100 cm long cable

Low PIM N Male to SMA Male Plenum Cable SPP-250-LLPL Coax in 48 Inch with LF Solder from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: Low PIM N Male to SMA Male Plenum Cable SPP-250-LLPL Coax in 48 Inch with LF Solder FMCA1817-48

URL: https://www.fairviewmicrowave.com/n-male-sma-male-cable-spp250llpl-coax-fmca1817-48-p.aspx

The information contained within 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 impliment 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 liability arising out of the use of any part or document.

