

SOLID CENTER

FMCA1844

Configuration

Connector 1: 4.3-10 Male TC-250-4310M-LP

• Connector 2: 4.3-10 Female TC-SPP250-4310F-LP

Cable Type: SPP-250-LLPLCoax Flex Type: Corrugated

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

SPP-250-LLPL OUTER SHIELD OUTER SHIELD DIELECTRIC

Applications

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

- Distributed Antenna Systems (DAS)
- Plenum Installations
- Multi-Carrier Communication Systems

PIM Testing

Description

The 4.3-10 male to 4.3-10 female cable using SPP-250-LLPL coax, part number FMCA1844, 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 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 FMCA1844 4.3-10 male to 4.3-10 female 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

Minimum	Typical	Maximum	Units
DC		5.8	GHz
		1.4:1	
	76		%
100			dB
	DC	DC 76	DC 5.8 1.4:1





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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Passive Intermodulation		-165	-160	dBc
IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz				
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:

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 per connector.

Mechanical Specifications

Cable Assembly

0 in [0 mm] Length Width/Diameter .87 in [22.1 mm] Weight 0.045 lbs [20.41 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

Shield Layer 1 Helically Corrugated Copper Tube Outer Conductor 1 Material and Plating Copper

Outer Conductor Diameter 0.25 in [6.35 mm]

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





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Connectors

Description	Connector 1	Connector 2
Туре	4.3-10 Male	4.3-10 Female
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Phosphor Bronze, Silver	Phosphor Bronze, Silver
Contact Plating Specification	200 μin	200 μin
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Brass, Tri-Metal
Outer Conductor Plating Specification		80 μin
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	80 μin	80 μin
Coupling Nut Material and Plating	Brass, Tri-Metal	
Coupling Nut Plating Specification	80 μin	
Torque	44.25 in-lbs 5 Nm	

Environmental Specifications

Operating Range Temperature -55 to +200 deg C
Storage Range Temperature -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.



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Typical Performance Data

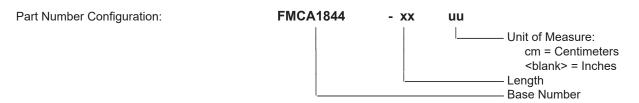






FMCA1844

How to Order



Example: FMCA1844-12 = 12 inches long cable FMCA1844-100cm = 100 cm long cable

Plenum Low PIM 4.3-10 Male to 4.3-10 Female Cable SPP-250-LLPL Coax Using Times Microwave Parts from Fairview Microwave is instock 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: Plenum Low PIM 4.3-10 Male to 4.3-10 Female Cable SPP-250-LLPL Coax Using Times Microwave Parts FMCA1844

URL: https://www.fairviewmicrowave.com/low-pim-4.3-10-male-4.3-10-female-cable-spp250llpl-coax-fmca1844-p.aspx

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