

FMCA1307-100CM

Configuration

Connector 1: N Male
Connector 2: 7/16 DIN Male
Cable Type: SPP-250-LLPL
Coax Flex Type: Corrugated

Features

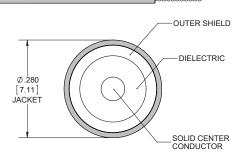
- Max Frequency 6 GHz
- Low PIM: -160 dBc Max
- Shielding Effectivity > 100 dB
- 76% Phase Velocity
- FEP Jacket
- Low PIM < -160 dBc
- IP67 (Mated)
- · Low Loss with Excellent VSWR
- · PIM Test Results Marked on Each Cable
- UL910 Plenum Rated Cable
- Extremely Flexible and Lightweight

Applications

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

- DAS
- Mobile Networks
- · In-Building Wireless

SPP-250-LLPL



- · Small Cells
- · PIM Testing

Description

Low PIM N male to 7/16 DIN male in 100cm part number FMCA1307-100CM from Fairview Microwave is in-stock and ships same day. This low PIM N male to 7/16 DIN male in 100cm plenum coax cable assembly offers low PIM performance to support Distributed Antenna Systems (DAS), in-building wireless and other emerging mobile communication networks. The SPP-250-LLPL coax cable carries a UL910 rating for plenum installations. Each low PIM N male to 7/16 DIN male in 100cm cable assembly is marked with its actual Passive Intermodulation (PIM) test result.

Fairview's FMCA1307-100CM datasheet specifications and outline drawing are shown below in this PDF. Our extensive offering of low PIM cable assemblies, low-PIM adapters and other RF products support multi-carrier system prototype, cable installations and PIM testing applications.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.35:1	
Velocity of Propagation		76		%
RF Shielding	100			dB
Passive Intermodulation		-165	-160	dBc
IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz				





FMCA1307-100CM

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Capacitance		26.7 [87.6]		pF/ft [pF/m]
Operating Voltage (AC)			750	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2	4	6	GHz
Insertion Loss (Max.)	0.53	0.58	0.67	0.8	0.9	dB
VSWR (Max.)	1.25:1	1.25:1	1.25:1	1.35:1	1.35:1	
Power Handling (Max.)	850	507	460	370	250	Watts

Electrical Specification Notes:

Values at 25°C, sea level

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 loss of 0.4dB of connector loss.

Mechanical Specifications

Cable Assembly

Shield Layer 1

Width/Diameter 0.28 in [7.11 mm] Weight 0.467 lbs [211.83 g]

Cable

Cable Type SPP-250-LLPL

Inner Conductor Type Solid

Inner Conductor Material and Plating Copper, Bare

Dielectric Type **PTFE** Number of Shields

Outer Conductor Diameter 0.25 in [6.35 mm]

FEP Jacket Material

0.28 in [7.11 mm] Jacket Diameter

One Time Minimum Bend Radius 1.5 in [38.1 mm]

Annular Corrugated Copper Tube





FMCA1307-100CM

Connectors

Description	Connector 1	Connector 2
Туре	N Male	7/16 DIN Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Silver	Brass, Silver
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Seal Gasket Material	Silicone Rubber	Silicone Rubber

Environmental Specifications

Operating Range Temperature Plenum Rating

-55 to +125 deg C

UL910

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Values at 25°C, sea level.



FMCA1307-100CM

Typical Performance Data









FMCA1307-100CM

How to Order



Example: FMCA1307-12 = 12 inches long cable FMCA1307-100cm = 100 cm long cable

Low PIM N Male to 7/16 DIN Male Plenum Cable SPP-250-LLPL Coax in 100 CM 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 7/16 DIN Male Plenum Cable SPP-250-LLPL Coax in 100 CM FMCA1307-100CM

URL: https://www.fairviewmicrowave.com/low-pim-n-male-7-16-din-male-cable-spp250llpl-coax-fmca1307-100cm-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.

