

Low PIM 7/16 DIN Male to 7/16 DIN Male Plenum
Cable SPP-250-LLPL Coax in 150 CM



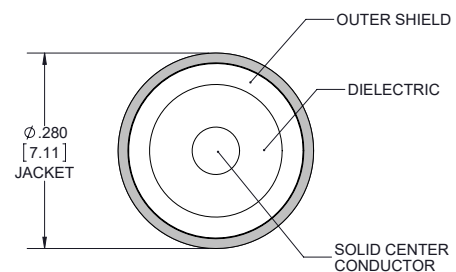
FMCA1305-150CM

Configuration

- Connector 1: 7/16 DIN 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
- Small Cells
- PIM Testing

Description

Low PIM 7/16 DIN male to 7/16 DIN male in 100cm part number FMCA1305-100CM from Fairview Microwave is in-stock and ships same day. This low PIM 7/16 DIN 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 7/16 DIN male to 7/16 DIN male in 100cm cable assembly is marked with its actual Passive Intermodulation (PIM) test result.

Fairview's FMCA1305-100CM 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 | | | | |

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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.) | 0.6 | 0.68 | 0.8 | 1 | 1.13 | 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

| | |
|----------------|----------------------|
| Length | 59.06 in [150.01 cm] |
| Width/Diameter | 0.28 in [7.11 mm] |
| Weight | 0.686 lbs [311.16 g] |

Cable

| | |
|--------------------------------------|--------------------------------|
| Cable Type | SPP-250-LLPL |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper, Bare |
| Dielectric Type | PTFE |
| Number of Shields | 1 |
| Shield Layer 1 | Annular Corrugated Copper Tube |
| Outer Conductor Diameter | 0.25 in [6.35 mm] |
| Jacket Material | FEP |
| Jacket Diameter | 0.28 in [7.11 mm] |
| One Time Minimum Bend Radius | 1.5 in [38.1 mm] |

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Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------|------------------|------------------|
| Type | 7/16 DIN 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 | -55 to +125 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

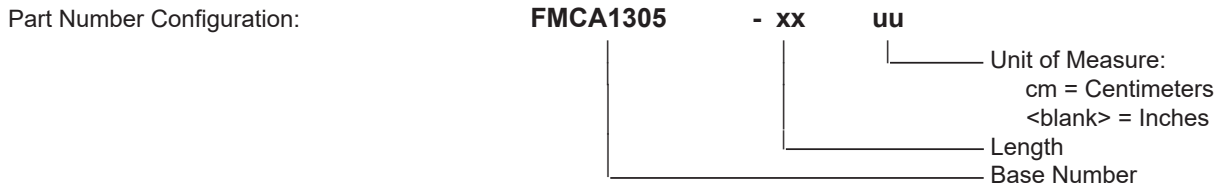


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How to Order



Example: FMCA1305-12 = 12 inches long cable
 FMCA1305-100cm = 100 cm long cable

Low PIM 7/16 DIN Male to 7/16 DIN Male Plenum Cable SPP-250-LLPL Coax in 150 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 7/16 DIN Male to 7/16 DIN Male Plenum Cable SPP-250-LLPL Coax in 150 CM FMCA1305-150CM](https://www.fairviewmicrowave.com/7-16-male-7-16-male-cable-spp250llpl-fmca1305-150cm-p.aspx)

URL: <https://www.fairviewmicrowave.com/7-16-male-7-16-male-cable-spp250llpl-fmca1305-150cm-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 implement 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.

FMCA1305-150CM CAD Drawing

Low PIM 7/16 DIN Male to 7/16 DIN Male Plenum Cable SPP-250-LLPL Coax in 150 CM

