

Plenum Low PIM RA 4.1/9.5 Mini DIN Male to 4.3-10 Male Cable SPP-250-LLPL Coax in 100 cm Using Times Microwave Parts

The RA 4.1/9.5 Mini DIN male to 4.3-10 male 100 cm cable using SPP-250-LLPL coax, part number FMCA1843-100CM, from Fairview Microwave is in-stock and ships same day. This Fairview 4.1/9.5 Mini DIN to 4.3-10 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 -160 dBc. The FMCA1843-100CM 4.1/9.5 Mini DIN male to 4.3-10 male cable assembly operates to 3 GHz. The right angle 4.1/9.5 Mini DIN interface on the SPP-250-LLPL cable allows for easier connections in tight spaces. 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

| Description | Min | Typ | Max | Units |
|-------------------------------|-----|--------------|-------|----------------------------------|
| Frequency Range | DC | | 3 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 76 | | % |
| RF Shielding | 100 | | | dB |
| Passive Intermodulation | | -165 | -160 | dBc |
| Capacitance | | 27 [88.58] | | pF/ft [pF/m] |
| Inductance | | 0.067 [0.22] | | uH/ft [uH/m] |
| DC Resistance Inner Conductor | | 3 [9.84] | | Ω /1000ft [Ω /Km] |

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|-----|------|------|------|-------|
| Frequency | 0.45 | 0.7 | 1 | 2 | 3 | GHz |
| Insertion Loss (Max.) | 0.25 | 0.3 | 0.34 | 0.48 | 0.57 | dB |

Electrical Specification Notes:

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 insertion loss of 0.05 dB for the right angle connector and 0.1*SQRT(FGHz) dB for the straight connector.

Mechanical Specifications

Cable Assembly

Length*

39.3701 in [100 cm]



Configuration:

- 4.1/9.5 Mini DIN Male Right Angle
- TC-SPP250-4195M-RALP
- 4.3-10 Male
- TC-250-4310M-LP
- SPP-250-LLPL

Features:

- Max Frequency 3 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

Applications:

- General Purpose
- Laboratory Use
- Low PIM Applications
- Distributed Antenna Systems (DAS)
- Plenum Installations
- Multi-Carrier Communication Systems
- PIM Testing

Cable Diagram:

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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 | 1 |
| Shield Layer 1 | Helically Corrugated Copper Tube |
| Outer Conductor Material and Plating | Copper |
| Outer Conductor Diameter | 0.25 in [6.35 mm] |
| 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 |
|---------------------------------|-----------------------|-------------------------|
| Type | 4.1/9.5 Mini DIN Male | 4.3-10 Male |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material & Plating | Brass, Silver | Phosphor Bronze, Silver |
| Contact Plating Spec. | 200µ in | 200µ in |
| Dielectric Type | PTFE | PTFE |
| Body Material & Plating | Brass, Nickel | Brass, Tri-Metal |
| Body Plating Spec. | 200µ in | 80µ in |
| Coupling Nut Material & Plating | Brass, Nickel | Brass, Tri-Metal |
| Coupling Nut Plating Spec. | 200µ in | 80µ in |
| Torque | 106.21 in-lbs 12 Nm | 44.25 in-lbs 5 Nm |

Environmental Specifications

Temperature

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

How to Order

Part Number Configuration:

FMCA1843 - xx uu



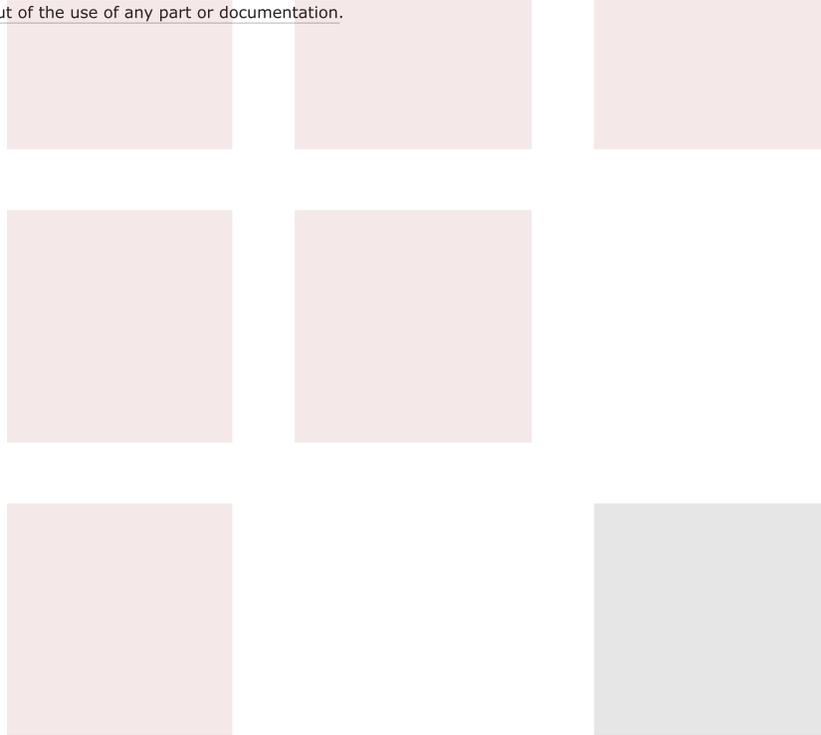
Example: FMCA1843-12 = 12 inches long cable
FMCA1843-100cm = 100 cm long cable

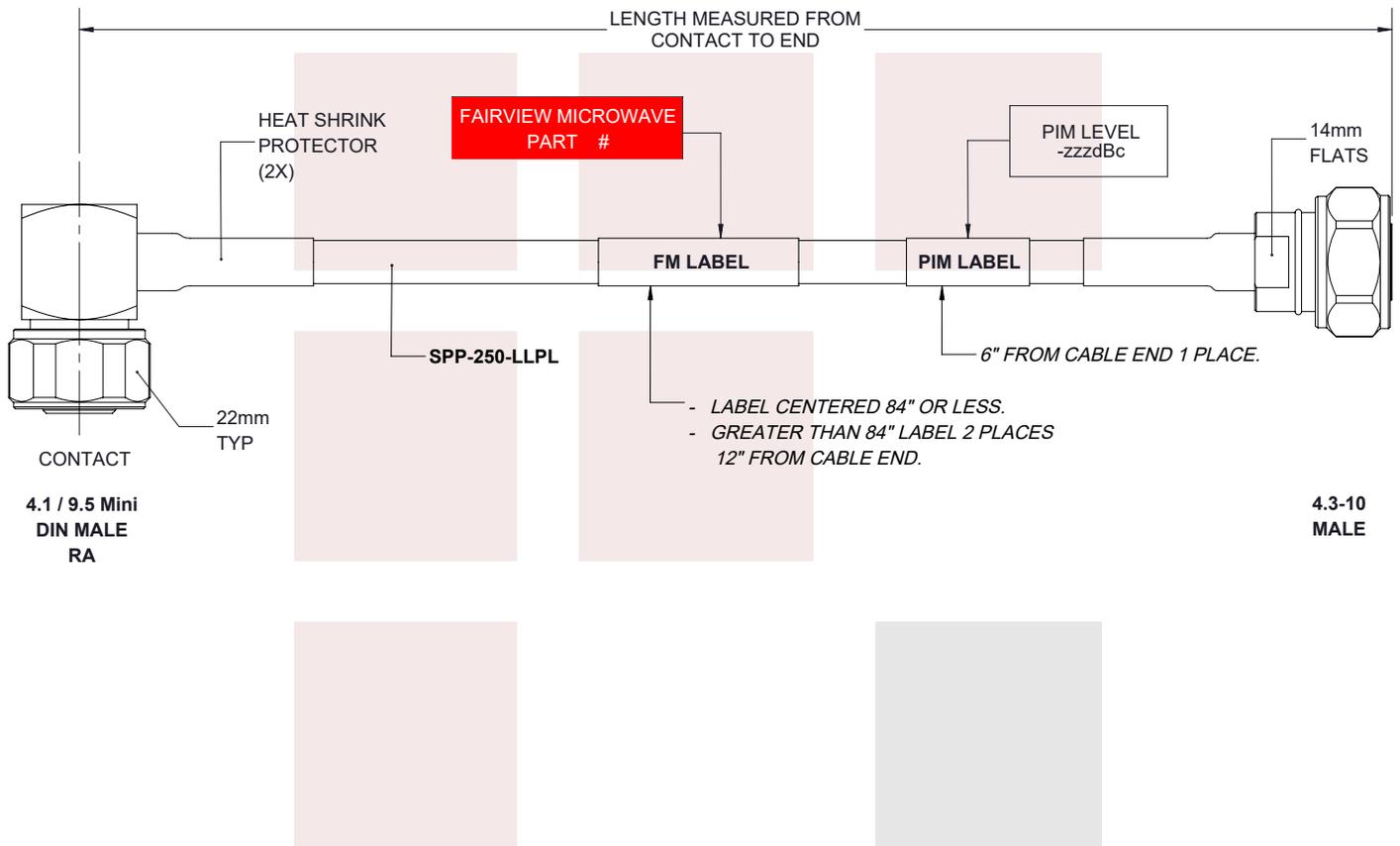
Plenum Low PIM RA 4.1/9.5 Mini DIN Male to 4.3-10 Male Cable SPP-250-LLPL Coax in 100 cm Using Times Microwave Parts from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Plenum Low PIM RA 4.1/9.5 Mini DIN Male to 4.3-10 Male Cable SPP-250-LLPL Coax in 100 cm Using Times Microwave Parts FMCA1843-100CM](https://www.fairviewmicrowave.com/low-pim-ra-4.1-9.5-mini-din-male-4.3-10-male-cable-spp250llpl-coax-fm-ca1843-100cm-p.aspx)

URL: <https://www.fairviewmicrowave.com/low-pim-ra-4.1-9.5-mini-din-male-4.3-10-male-cable-spp250llpl-coax-fm-ca1843-100cm-p.aspx>

The information contained in 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 any liability arising out of the use of any part or documentation.





| STANDARD TOLERANCES | |
|---------------------|--------|
| .X | ±0.2 |
| .XX | ±0.01 |
| .XXX | ±0.005 |

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

| | | | | | |
|---|----------|---|--------|-----------------------------------|------|
| <p>Fairview Microwave an INFINIT[®] brand</p> | | <p>NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].</p> | | | |
| <p>TITLE Plenum Low PIM RA 4.1/9.5 Mini DIN Male to 4.3-10 Male Cable SPP-250-LLPL Coax in 100 cm Using Times Microwave Parts</p> | | <p>DWG NO FMCA1843</p> | | <p>CAGE CODE 3FKR5</p> | |
| CAD FILE | 06/05/19 | SHEET | 1 OF 1 | SCALE | N/A |
| | | | | SIZE | A |
| | | | | | 7361 |