

## Plenum Low PIM RA 4.3-10 Male to NEX10 Male Cable SPP-250-LLPL Coax in 36 Inch Using Times Microwave Parts

The RA 4.3-10 male to NEX10 male 36 inch cable using SPP-250-LLPL coax, part number FMCA1932-36, from Fairview Microwave is in-stock and ships same day. This Fairview 4.3-10 to NEX10 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 FMCA1932-36 4.3-10 male to NEX10 male cable assembly operates to 5.8 GHz. The right angle 4.3-10 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  |              | 5.8   | 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]     |       | $\Omega$ /1000ft [ $\Omega$ /Km] |

### Performance by Frequency

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 0.45 | 0.7  | 1    | 2.5  | 5.8  | GHz   |
| Insertion Loss (Max.) | 0.26 | 0.33 | 0.38 | 0.61 | 0.95 | 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  $0.1 \cdot \sqrt{FGHz}$  dB per connector.

### Mechanical Specifications

#### Cable Assembly

Length\* 36 in [914.4 mm]



### Configuration:

- 4.3-10 Male Right Angle
- TC-250-4310M-RA-LP
- NEX10 Male
- TC-250-NX10M-LP
- SPP-250-LLPL

### 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

### 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                            | 4.3-10 Male         | NEX10 Male          |
| Impedance                       | 50 Ohms             | 50 Ohms             |
| Mating Cycles                   |                     | 500                 |
| Contact Material & Plating      | Brass, Silver       | Brass, Silver       |
| Contact Plating Spec.           | 200µ in             | 100 µin             |
| Dielectric Type                 | PTFE                | PTFE                |
| Body Material & Plating         | Brass, Tri-Metal    | Brass, Tri-Metal    |
| Body Plating Spec.              | 80µ in              | 100 µin             |
| Coupling Nut Material & Plating | Brass, Nickel       | Brass, Tri-Metal    |
| Coupling Nut Plating Spec.      | 200µ in             | 100 µin             |
| Torque                          | 15.05 in-lbs 1.7 Nm | 13.28 in-lbs 1.5 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**

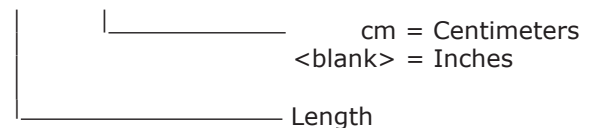
Notes:

- Values at 25°C, sea level.

**How to Order**

Part Number Configuration:

**FMCA1932 - xx uu**



Example: FMCA1932-12 = 12 inches long cable  
FMCA1932-100cm = 100 cm long cable

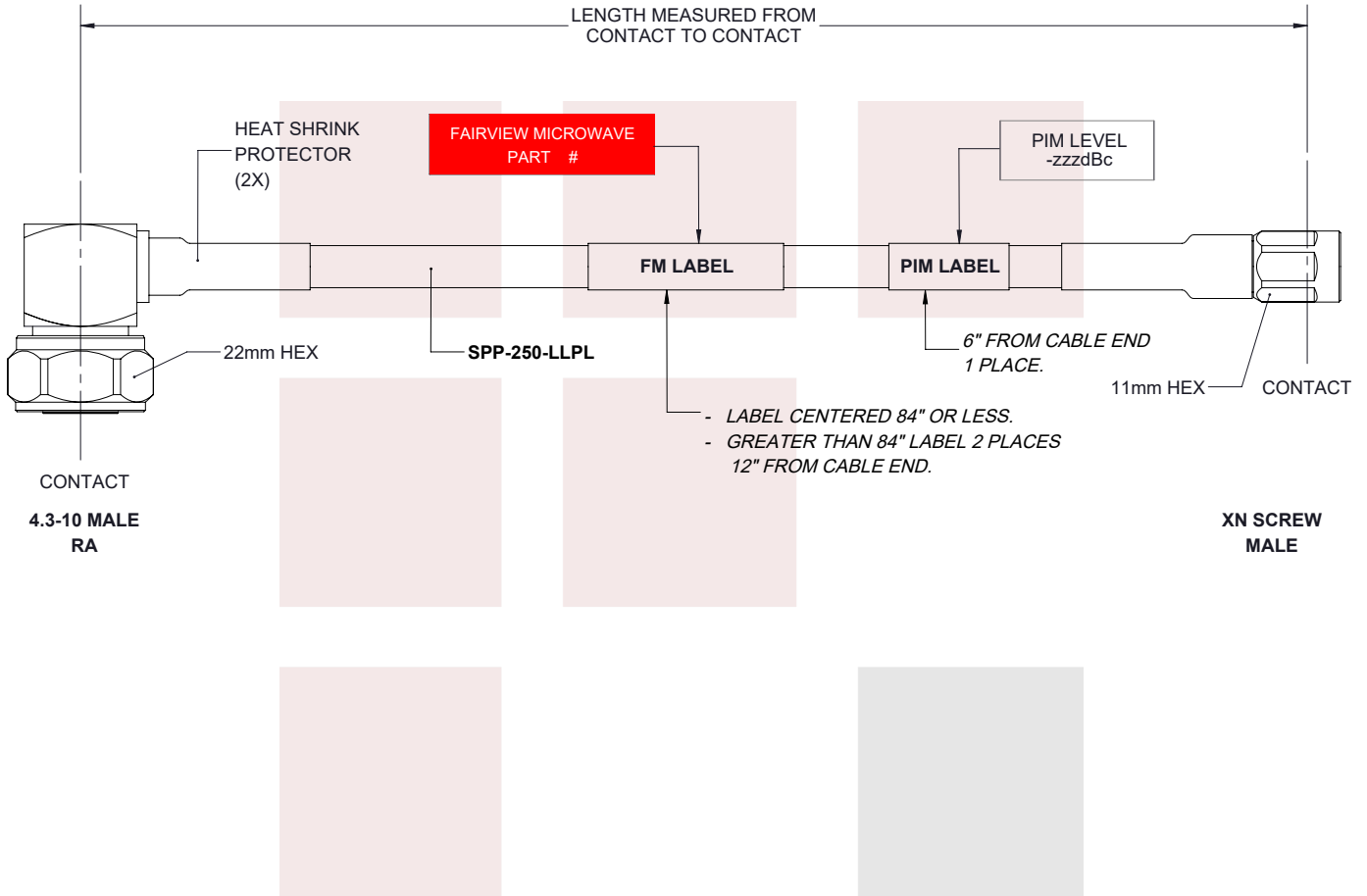
Plenum Low PIM RA 4.3-10 Male to NEX10 Male Cable SPP-250-LLPL Coax in 36 Inch Using Times Microwave Parts from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Plenum Low PIM RA 4.3-10 Male to NEX10 Male Cable SPP-250-LLPL Coax in 36 Inch Using Times Microwave Parts FMCA1932-36](https://www.fairviewmicrowave.com/low-pim-ra-4.3-10-male-nex10-male-cable-spp250llpl-coax-fmca1932-36-p.aspx)

URL: <https://www.fairviewmicrowave.com/low-pim-ra-4.3-10-male-nex10-male-cable-spp250llpl-coax-fmca1932-36-p.aspx>

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

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

|  |          |   |        |           |      |
|--|----------|---|--------|-----------|------|
| <p><b>Fairview Microwave</b><br/>an INFINIT<sup>®</sup> brand</p>  |          | <p>NOTES:<br/>1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.<br/>2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.<br/>3. DIMENSIONS ARE IN INCHES [mm].</p> |        |           |      |
| TITLE  |          | DWG NO  |        | CAGE CODE |      |
| Plenum Low PIM RA 4.3-10 Male to NEX10 Male Cable SPP-250-LLPL Coax in 36 Inch Using Times Microwave Parts |          | FMCA1932  |        | 3FKR5     |      |
| CAD FILE   | 06/05/19 | SHEET   | 1 OF 1 | SCALE     | N/A  |
|  |          |   |        | SIZE      | A    |
|  |          |   |        |           | 7361 |