

Plenum Low PIM RA N Male to NEX10 Male Cable SPP-250-LLPL Coax in 50 cm Using Times Microwave Parts

The RA type N male to NEX10 male 50 cm cable using SPP-250-LLPL coax, part number FMCA1927-50CM, from Fairview Microwave is in-stock and ships same day. This Fairview type N 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 FMCA1927-50CM type N male to NEX10 male cable assembly operates to 5.8 GHz. The right angle type N 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] | | Ω /1000ft [Ω /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 | 0.29 | 0.32 | 0.44 | 0.62 | 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 0.12 dB for the right angle connector and 0.1*SQRT(FGHz) dB for the straight connector.

Mechanical Specifications

Cable Assembly

Length* 19.685 in [500 mm]



Configuration:

- N Male Right Angle
- TC-SPP250-NM-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 | N Male | NEX10 Male |
| Impedance | 50 Ohms | 50 Ohms |
| Mating Cycles | | 500 |
| Contact Material & Plating | Phosphor Bronze, Silver | Brass, Silver |
| Contact Plating Spec. | 196µ in | 100 µin |
| Dielectric Type | PTFE | PTFE |
| Body Material & Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Body Plating Spec. | 118µ in | 100 µin |
| Coupling Nut Material & Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Coupling Nut Plating Spec. | 118µ in | 100 µin |
| Torque | 10 in-lbs 1.13 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)

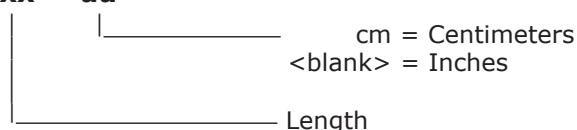
Plotted and Other Data

Notes:

- Values at 25°C, sea level.

How to Order

Part Number Configuration:

FMCA1927 - xx uu


Example: FMCA1927-12 = 12 inches long cable
 FMCA1927-100cm = 100 cm long cable

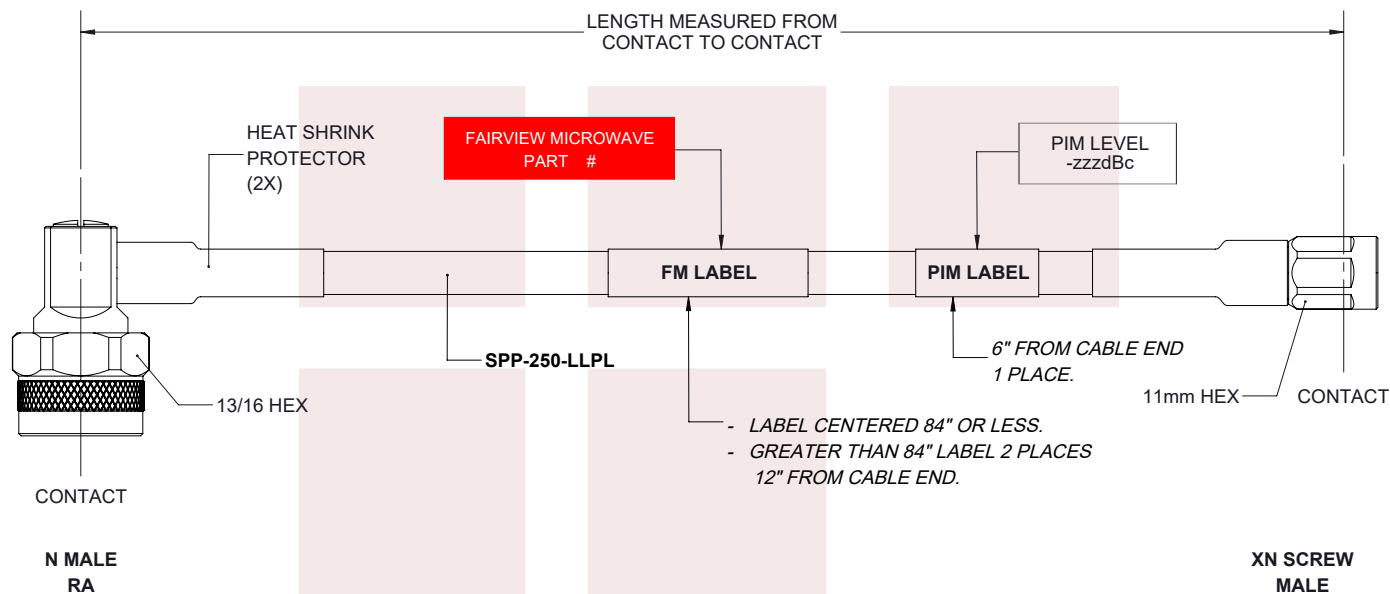
Plenum Low PIM RA N Male to NEX10 Male Cable SPP-250-LLPL Coax in 50 cm Using Times Microwave Parts from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Plenum Low PIM RA N Male to NEX10 Male Cable SPP-250-LLPL Coax in 50 cm Using Times Microwave Parts FMCA1927-50CM](https://www.fairviewmicrowave.com/low-pim-ra-n-male-nex10-male-cable-spp250llpl-coax-fmca1927-50cm-p.aspx)

URL: <https://www.fairviewmicrowave.com/low-pim-ra-n-male-nex10-male-cable-spp250llpl-coax-fmca1927-50cm-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

| | | | | | | |
|---|----------|---|--------|-------|-----------|-------------|
| Fairview Microwave an INFINITE brand | | 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]. | | | | |
| TITLE | | DWG NO | | | CAGE CODE | |
| Plenum Low PIM RA N Male to NEX10 Male Cable SPP-250-LLPL Coax in 50 cm Using Times Microwave Parts | | FMCA1927 | | | 3FKR5 | |
| CAD FILE | 06/05/19 | SHEET | 1 OF 1 | SCALE | N/A | SIZE A 7361 |