

## Plenum Low PIM 7/16 DIN Male to N Female Cable SPP-375-LLPL Coax Using Times Microwave Parts

The 7/16 DIN male to type N female 36 inch cable using SPP-375-LLPL coax, part number FMCA2572-36, from Fairview Microwave is in-stock and ships same day. This Fairview 7/16 DIN to type N cable assembly has a male to female gender configuration with 50 ohm corrugated SPP-375-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 FMCA2572-36 7/16 DIN male to type N female cable assembly operates to 5.8 GHz.

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       |     |              | -160  | dBc             |
| Capacitance                   |     | 26.2 [85.96] |       | pF/ft [pF/m]    |
| Inductance                    |     | 0.067 [0.22] |       | uH/ft [uH/m]    |
| DC Resistance Inner Conductor |     | 1.3 [4.27]   |       | Ω/1000ft [Ω/Km] |

### Performance by Frequency

| Description           | F1   | F2   | F3   | F4   | F5  | Units |
|-----------------------|------|------|------|------|-----|-------|
| Frequency             | 0.25 | 0.5  | 1    | 2.5  | 5.8 | GHz   |
| Insertion Loss (Typ.) | 0.16 | 0.23 | 0.32 | 0.52 | 0.8 | dB    |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1\*SQRT(FGHz) dB per connector.

### Mechanical Specifications

#### Cable Assembly

|         |                      |
|---------|----------------------|
| Length* | 36 in [914.4 mm]     |
| Weight  | 0.228 lbs [103.42 g] |

#### Cable

|                                      |                      |
|--------------------------------------|----------------------|
| Cable Type                           | SPP-375-LLPL         |
| Impedance                            | 50 Ohms              |
| Inner Conductor Type                 | Solid                |
| Inner Conductor Material and Plating | Copper Clad Aluminum |



### Configuration:

- 7/16 DIN Male
- N Female
- SPP-375-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
- CMP Plenum Rated Installations
- Distributed Antenna Systems (DAS)
- Multi-Carrier Communication Systems
- PIM Testing

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|                                      |                     |
|--------------------------------------|---------------------|
| Dielectric Type                      | Microporous PTFE    |
| Number of Shields                    | 1                   |
| Outer Conductor Material and Plating | Copper              |
| Jacket Material                      | FEP, Blue           |
| Jacket Diameter                      | 0.402 in [10.21 mm] |

|                              |                       |
|------------------------------|-----------------------|
| One Time Minimum Bend Radius | 1.25 in [31.75 mm]    |
| Bending Moment               | 1.7 lbs-ft [2.31 N-m] |

### Connectors

| Description                     | Connector 1      | Connector 2      |
|---------------------------------|------------------|------------------|
| Type                            | 7/16 DIN Male    | N Female         |
| Impedance                       | 50 Ohms          | 50 Ohms          |
| Contact Material & Plating      | Brass, Silver    | Brass, Silver    |
| Contact Plating Spec.           | 200 µin          | 196 µin          |
| Dielectric Type                 | PTFE             | PTFE             |
| Outer Cond Material & Plating   |                  | Brass, Tri-Metal |
| Outer Cond Plating Spec.        |                  | 118 µin          |
| Body Material & Plating         | Brass, Tri-Metal |                  |
| Body Plating Spec.              | 100 µin          |                  |
| Coupling Nut Material & Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Coupling Nut Plating Spec.      | 100 µin          | 118 µin          |
| Torque                          |                  | 6 in-lbs 0.68 Nm |

### Environmental Specifications

#### Temperature

Operating Range -40 to +125 deg C

### Compliance Certifications (see [product page](#) for current document)

### Plotted and Other Data

Notes:

### How to Order

Part Number Configuration:

**FMCA2572 - xx uu**

cm = Centimeters  
 <blank> = Inches  
 Length

Example: FMCA2572-12 = 12 inches long cable  
 FMCA2572-100cm = 100 cm long cable

Plenum Low PIM 7/16 DIN Male to N Female Cable SPP-375-LLPL Coax 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 7/16 DIN Male to N Female Cable SPP-375-LLPL Coax Using Times Microwave Parts FMCA2572-36](https://www.fairviewmicrowave.com/plenum-low-pim-7-16-din-male-to-n-female-cable-spp-375-llpl-coax-using-times-microwave-parts-fmca2572-36-p.aspx)

URL: <https://www.fairviewmicrowave.com/plenum-low-pim-7-16-din-male-to-n-female-cable-spp-375-llpl-coax-using-times-microwave-parts-fmca2572-36-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.



| REVISIONS |                 |           |            |  |
|-----------|-----------------|-----------|------------|--|
| REV.      | DESCRIPTION     | DATE      | APPROVED   |  |
| A         | INITIAL RELEASE | 9/21/2021 | A. GANWANI |  |

  

CONTACT

2X HEAT SHRINK BOOT

LENGTH MEASURED FROM CONTACT TO CONTACT

www.FAIRVIEWMICROWAVE.com  
FMCA2572  
S/N: XXXXXXXXX

(SEE NOTE 1)

PIM LEVEL  
-zzzdBc  
S/N: XXXXXXXXX

(SEE NOTE 2)

CONTACT

N FEMALE

7/16 DIN MALE

  

**NOTES:**

- CABLES 84" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 84" HAVE 2 LABELS, ONE AT EACH END 12.0" FROM THE END OF THE CONNECTOR.
- 6" FROM CABLE END 1 PLACE FOR ALL LENGTHS OF CABLE.

  

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| DRAWN BY K.DANG                                                                                                                                                             | ITEM NO. FMCA2572                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                           |             |                              |                                                                                                                               |                                                                                                                                                                                                                                                           |                                                                                                                                                                                               |
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