

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

The 7/16 DIN female to type N female 7 inch cable using SPP-375-LLPL coax, part number FMCA2573, from Fairview Microwave is in-stock and ships same day. This Fairview 7/16 DIN to type N cable assembly has a female 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 FMCA2573 7/16 DIN female 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]		$\Omega$ /1000ft [ $\Omega$ /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.)	0.019	0.029	0.039	0.065	0.103	dB

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as  $0.1 \times \sqrt{\text{FGHz}}$  dB per connector.

### Mechanical Specifications

#### Cable Assembly

Length*	7 in [177.8 mm]
Weight	0.3035 lbs [137.67 g]

#### Cable

Cable Type	SPP-375-LLPL
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Aluminum
Dielectric Type	Microporous PTFE
Number of Shields	1



### Configuration:

- 7/16 DIN Female
- 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

### Cable Diagram:

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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 Female	N Female
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	
Contact Material & Plating	Phosphor Bronze, 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
Coupling Nut Plating Spec.		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:

**FMCA2573 - xx uu**

cm = Centimeters  
 <blank> = Inches  
 Length

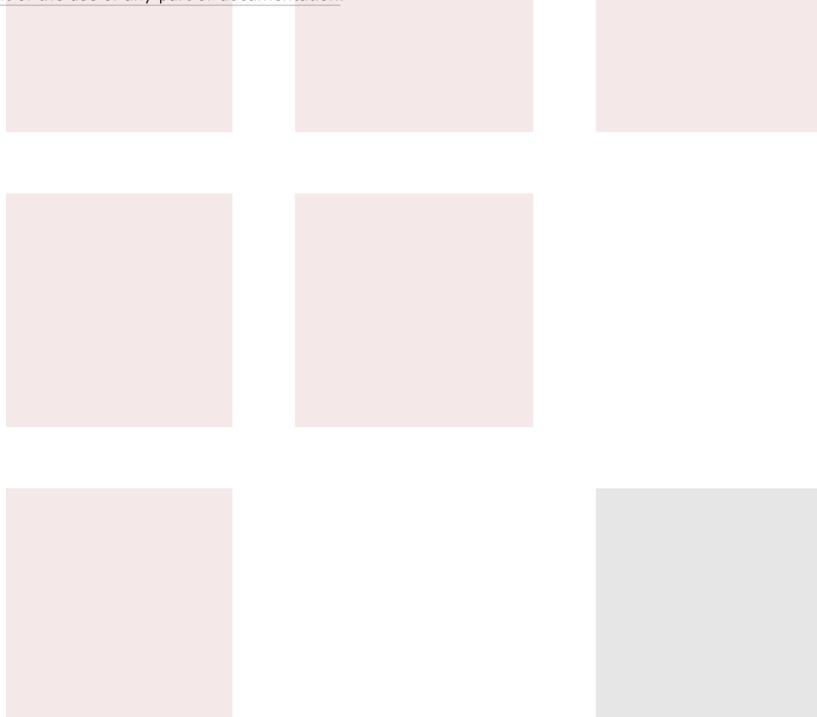
Example: FMCA2573-12 = 12 inches long cable  
 FMCA2573-100cm = 100 cm long cable

Plenum Low PIM 7/16 DIN Female to N Female Cable SPP-375-LLPL Coax in 7 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.

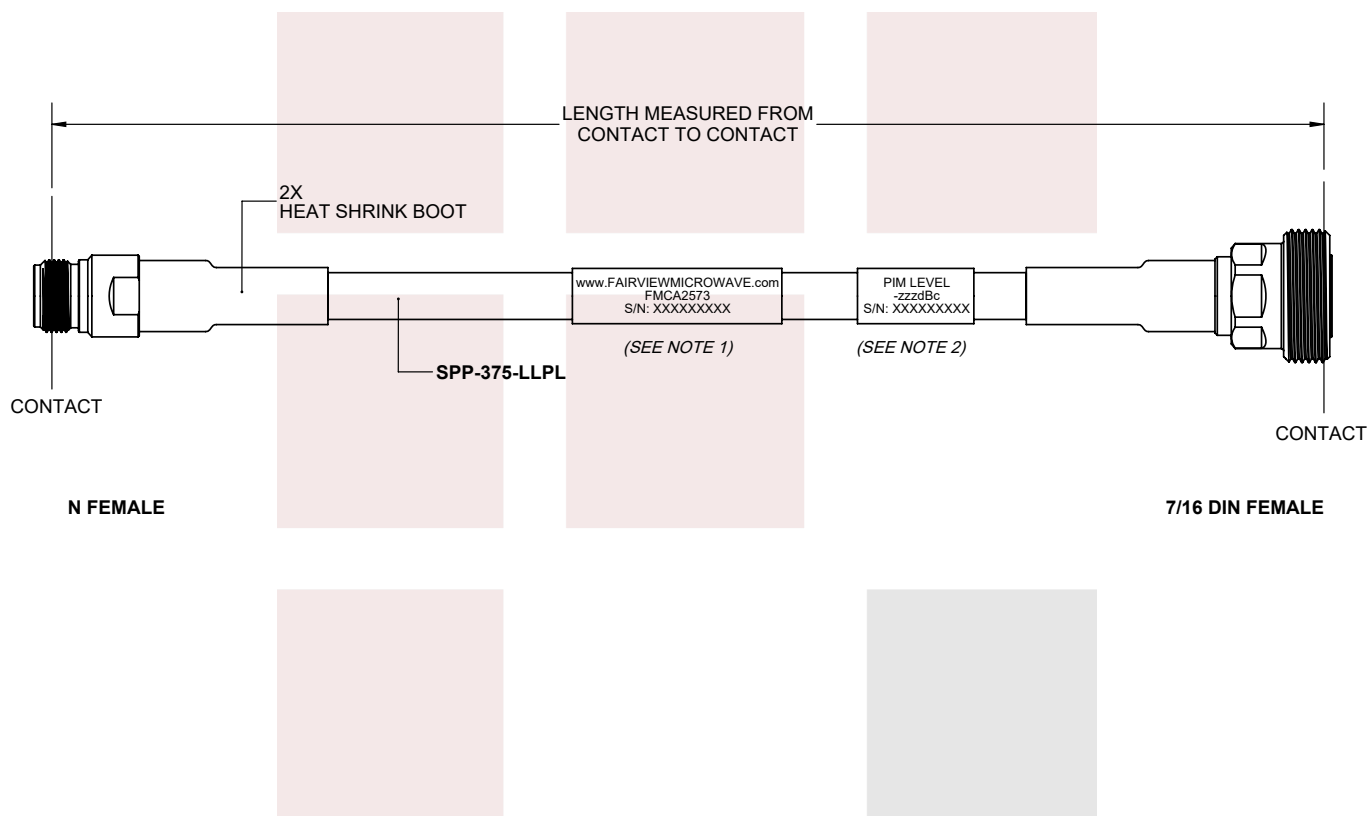
Click the following link to obtain additional part information: [Plenum Low PIM 7/16 DIN Female to N Female Cable SPP-375-LLPL Coax in 7 Inch Using Times Microwave Parts FMCA2573](https://www.fairviewmicrowave.com/plenum-low-pim-7-16-din-female-to-n-female-cable-spp-375-llpl-coax-in-7-inch-using-times-microwave-parts-fmca2573-p.aspx)

URL: <https://www.fairviewmicrowave.com/plenum-low-pim-7-16-din-female-to-n-female-cable-spp-375-llpl-coax-in-7-inch-using-times-microwave-parts-fmca2573-p.aspx>

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



**NOTES:**

1. 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.
2. 6" FROM CABLE END 1 PLACE FOR ALL LENGTHS OF CABLE.

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<p>Plenum Low PIM 7/16 DIN Female to N Female Cable SPP-375-LLPL Coax in 7 Inch Using Times Microwave Parts</p>		<p>CABLE LENGTH (L) TOLERANCES:</p>		<p>SHEET 1 OF 1</p>	
		<p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>		<p>SCALE N/A</p>	
SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV	
A	3FKR5	K.DANG	FMCA2573	A	

T-Rev.D