

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

The 7/16 DIN male to 7/16 DIN female 7 inch cable using SPP-375-LLPL coax, part number FMCA2575, from Fairview Microwave is in-stock and ships same day. This Fairview 7/16 DIN to 7/16 DIN 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 FMCA2575 7/16 DIN male to 7/16 DIN 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.)	0.019	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 $0.1 * \text{SQRT}(\text{FGHz})$ dB per connector.

Mechanical Specifications

Cable Assembly

Length*	7 in [177.8 mm]
Weight	0.2975 lbs [134.94 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 Male
- 7/16 DIN 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 Male	7/16 DIN Female
Impedance	50 Ohms	50 Ohms
Mating Cycles		500
Contact Material & Plating	Brass, Silver	Phosphor Bronze, Silver
Contact Plating Spec.	200 µin	200 µin
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Spec.	100 µin	100 µin
Coupling Nut Material & Plating	Brass, Tri-Metal	
Coupling Nut Plating Spec.	100 µin	

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:

FMCA2575 - xx uu

cm = Centimeters
<blank> = Inches

Length

Example: FMCA2575-12 = 12 inches long cable
FMCA2575-100cm = 100 cm long cable

Plenum Low PIM 7/16 DIN Male to 7/16 DIN 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.

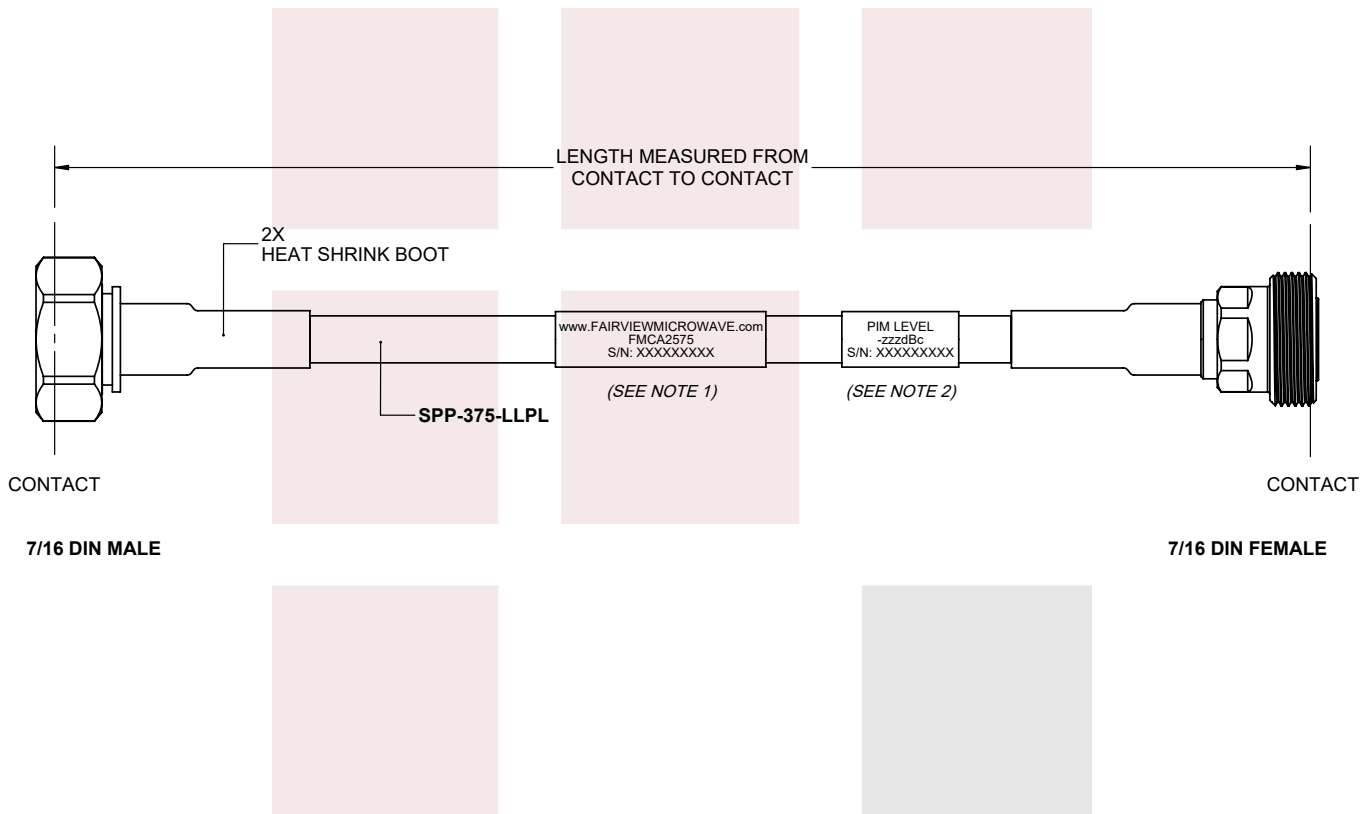
Click the following link to obtain additional part information: [Plenum Low PIM 7/16 DIN Male to 7/16 DIN Female Cable SPP-375-LLPL Coax in 7 Inch Using Times Microwave Parts FMCA2575](https://www.fairviewmicrowave.com/plenum-low-pim-7-16-din-male-to-7-16-din-female-cable-spp-375-llpl-coax-in-7-inch-using-times-microwave-parts-fmca2575)

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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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	TOLERANCES:		CABLE LENGTH (L) TOLERANCES:	
TITLE Plenum Low PIM 7/16 DIN Male to 7/16 DIN Female Cable SPP-375-LLPL Coax in 7 Inch Using Times Microwave Parts	.X = ± .2 [.51]	FRACTIONS ± 1/32	L ≤ 12 [305] = +1 [25] / -0 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 300 [7620] < L = +5%L / -0	THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.
	ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.		SCALE N/A	
SIZE A	CAGE CODE 3FKR5	DRAWN BY K.DANG	ITEM NO. FMCA2575	REV A

T-Rev.D