

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



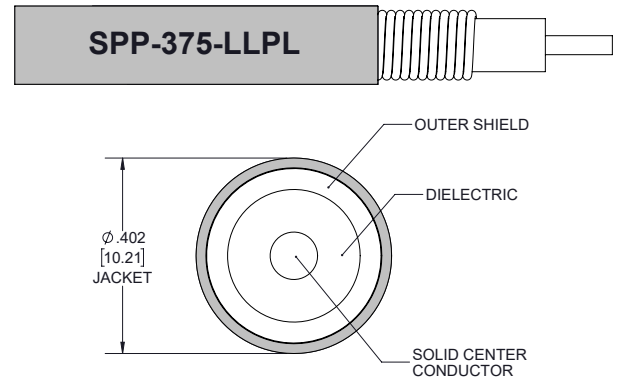
### FMCA2575

#### Configuration

- Connector 1: 7/16 DIN Male
- Connector 2: 7/16 DIN Female
- Cable Type: SPP-375-LLPL
- Coax Flex Type: Corrugated

#### 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

#### Description

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	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR			1.4:1	
Velocity of Propagation		76		%
RF Shielding	100			dB

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**

**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Passive Intermodulation			-160	dBc
IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz				
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]		Ohms/1000ft [Ohms/Km]

**Specifications 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  $0.1 \cdot \sqrt{FGHz}$  dB per connector.

**Mechanical Specifications**

**Cable Assembly**

Width/Diameter	10 in [254 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
Outer Conductor 1 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]

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

Connectors

Description	Connector 1	Connector 2
Type	7/16 DIN Male	7/16 DIN Female
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles		500
Contact Material and Plating	Brass, Silver	Phosphor Bronze, Silver
Contact Plating Specification	200 µin	200 µin
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	100 µin	100 µin
Coupling Nut Material and Plating	Brass, Tri-Metal	
Coupling Nut Plating Specification	100 µin	

Environmental Specifications

Operating Range Temperature-40 to +125 deg C

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

Plotted and Other Data

Notes:

## 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

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**FMCA2575**

**- xx**

**uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

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 is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [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)

URL: <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-p.aspx>

The information contained within 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 liability arising out of the use of any part or document.

FMCA2575 CAD Drawing

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

