

## Plenum Low PIM 7/16 DIN Female to 7/16 DIN Female Cable SPP-375-LLPL Coax in 100 cm Using Times Microwave Parts

The 7/16 DIN female to 7/16 DIN female 100 cm cable using SPP-375-LLPL coax, part number FMCA2053-100CM, from Fairview Microwave is in-stock and ships same day. This Fairview 7/16 DIN to 7/16 DIN 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 FMCA2053-100CM 7/16 DIN female to 7/16 DIN female cable assembly operates to 5.8 GHz. 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		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	0.45	0.7	1	2.5	5.8	GHz
Insertion Loss (Max.)	0.23	0.28	0.33	0.53	0.82	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  $0.1 \cdot \sqrt{\text{FGHz}}$  dB per connector.

### Mechanical Specifications

#### Cable Assembly

Length\* 39.37 in [100 cm]



### Configuration:

- 7/16 DIN Female
- TC-SPP375-716F-LP
- 7/16 DIN Female
- TC-SPP375-716F-LP
- 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
- Distributed Antenna Systems (DAS)
- Plenum Installations
- Multi-Carrier Communication Systems
- PIM Testing

### Cable Diagram:

Fairview Microwave  
 301 Leora Ln., Suite 100  
 Lewisville, TX 75056  
 Tel: 1-800-715-4396 / (972) 649-6678  
 Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

**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  
 Shield Layer 1 Helically Corrugated Copper Tube  
 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	7/16 DIN Female
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Phosphor Bronze, 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.	80 µin	80 µin

**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)

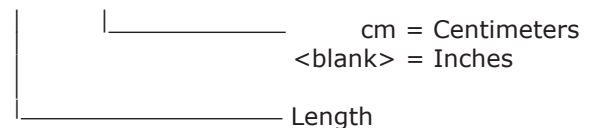
**Plotted and Other Data**

Notes:  
 • Values at 25°C, sea level.

**How to Order**

Part Number Configuration:

**FMCA2053 - xx uu**



Example: FMCA2053-12 = 12 inches long cable  
 FMCA2053-100cm = 100 cm long cable

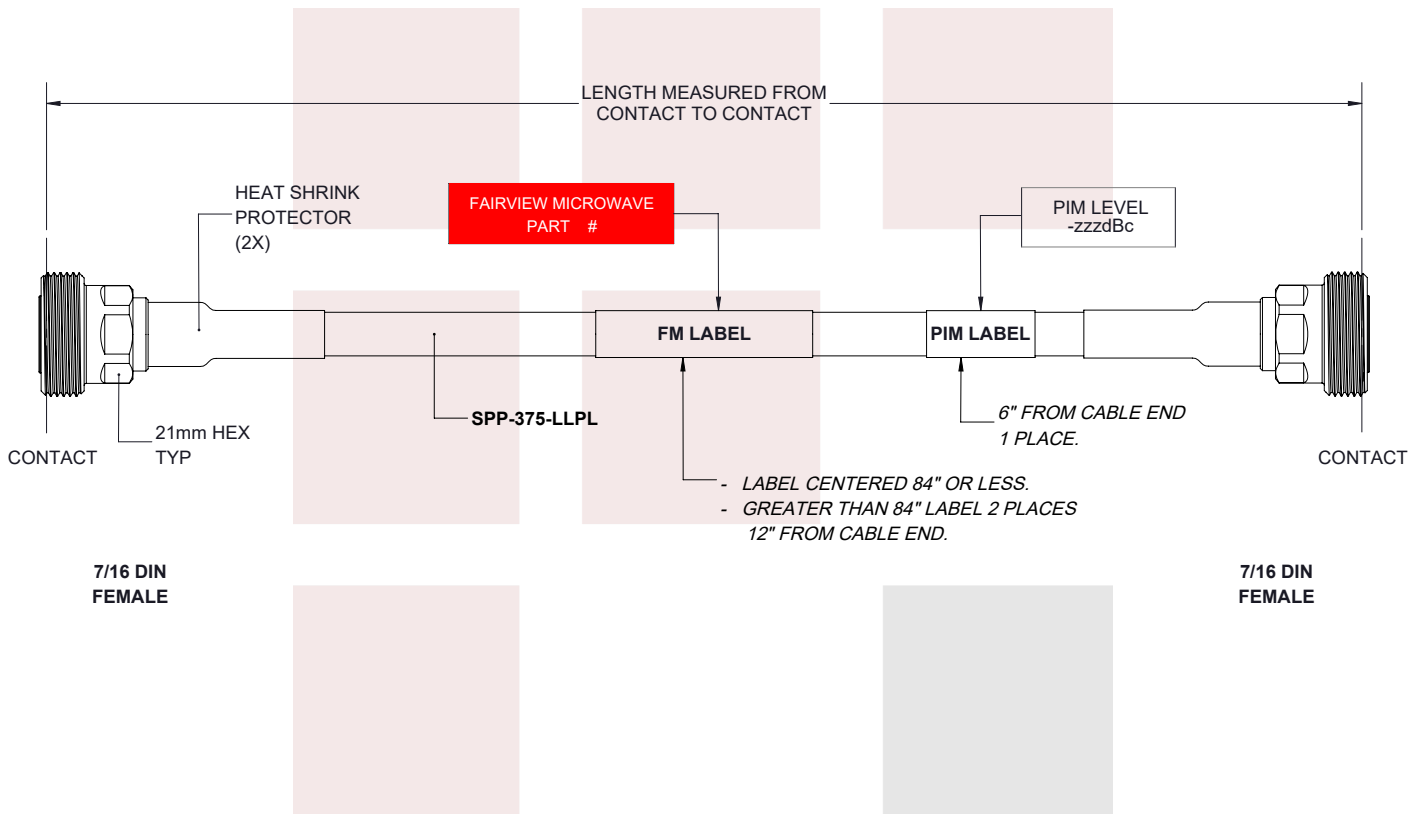
Plenum Low PIM 7/16 DIN Female to 7/16 DIN Female Cable SPP-375-LLPL Coax in 100 cm Using Times Microwave Parts from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Plenum Low PIM 7/16 DIN Female to 7/16 DIN Female Cable SPP-375-LLPL Coax in 100 cm Using Times Microwave Parts FMCA2053-100CM](https://www.fairviewmicrowave.com/low-pim-7-16-female-7-16-female-cable-spp375llpl-coax-fmca2053-100cm-p.aspx)

URL: <https://www.fairviewmicrowave.com/low-pim-7-16-female-7-16-female-cable-spp375llpl-coax-fmca2053-100cm-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.





STANDARD TOLERANCES	
.X	±0.2
.XX	±0.01
.XXX	±0.005

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

<p><b>Fairview Microwave</b> an INFINIT<sup>®</sup> brand</p>		<p>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].</p>				
TITLE		DWG NO			CAGE CODE	
Plenum Low PIM 7/16 DIN Female to 7/16 DIN Female Cable SPP-375-LLPL Coax in 100 cm Using Times Microwave Parts		FMCA2053			3FKR5	
CAD FILE	06/05/19	SHEET	1 OF 1	SCALE	N/A	SIZE A 7361