

Fire Rated Low PIM N Female to N Female Cable SPF-375 Coax in 100 cm Using Times Microwave Parts

The type N female to type N female 100 cm cable using SPF-375 coax, part number FMCA2049-100CM, from Fairview Microwave is in-stock and ships same day. This Fairview type N to type N cable assembly has a female to female gender configuration with 50 ohm corrugated SPF-375 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 FMCA2049-100CM type N female to type N female cable assembly operates to 6 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 | T | ур | Max | Units | |
|-------------------------|-----|------------|----|-------|--------------|--|
| Frequency Range | DC | | | 6 | GHz | |
| VSWR | | | | 1.4:1 | | |
| Velocity of Propagation | | 83 | | | % | |
| assive Intermodulation | | -165 | | -160 | dBc | |
| Capacitance | | 24 [78.74] | | | pF/ft [pF/m] | |

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|-----|------|------|------|----|-------|
| Frequency | 0.5 | 1 | 2 | 6 | | GHz |
| Insertion Loss (Max.) | 0.3 | 0.35 | 0.41 | 0.59 | | 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 dB per connector.

Mechanical Specifications

Cable Assembly

Length* 39.37 in [100 cm]

Cable

Cable Type SPF-375
Impedance 50 Ohms
Inner Conductor Type Solid

FMCA2049-100CM DATA SHEET



Configuration:

- N Female
- TC-SPP375-NF-LP
- N Female
- TC-SPP375-NF-LP
- SPF-375

Features:

- Max Frequency 6 GHz
- Low PIM: -160 dBc Max
- 83% Phase Velocity
- FRPE Jacket
- 100% Tested with PIM Test Results Marked on 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)
- 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 sales@fairviewmicrowave.com





Inner Conductor Material and Plating

Dielectric Type Number of Shields

Shield Layer 1

Outer Conductor Material and Plating

Jacket Material

Jacket Diameter

Copper Clad Aluminum

Foam PE

1

Helically Corrugated Copper Tube

Copper FRPE, Black

0.435 in [11.05 mm]

One Time Minimum Bend Radius 1.75

1.75 in [44.45 mm]

Connectors

| Description | Connector 1 | Connector 2 | | |
|-----------------------------|-----------------------|---------------------|--|--|
| Туре | N Female | N Female | | |
| Impedance | 50 Ohms | 50 Ohms | | |
| Contact Material & Plating | Brass, Silver | Brass, Silver | | |
| Contact Plating Spec. | 196 µin | 196 µin | | |
| Dielectric Type | PTFE | PTFE | | |
| Outer Cond Material & Plati | ing Brass, Tri-Metal | Brass, Tri-Metal | | |
| Outer Cond Plating Spec. | 118 µin | 118 µin | | |
| Coupling Nut Material & Pla | ting Brass, Tri-Metal | Brass, Tri-Metal | | |
| Coupling Nut Plating Spec. | 118 µin | 118 μin | | |
| Torque | 10 in-lbs 1.13 Nr | n 10 in-lbs 1.13 Nm | | |
| | | | | |

Environmental Specifications

Temperature

Operating Range Storage Range -55 to +200 deg C -55 to +200 deg C

Environmental Specification Notes:

CMR (Riser) Fire Rated

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:

Example: FMCA2049-12 = 12 inches long cable

FMCA2049-100cm = 100 cm long cable

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REV 1.1 Page 2 of 4





Fire Rated Low PIM N Female to N Female Cable SPF-375 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: Fire Rated Low PIM N Female to N Female Cable SPF-375 Coax in 100 cm Using Times Microwave Parts FMCA2049-100CM

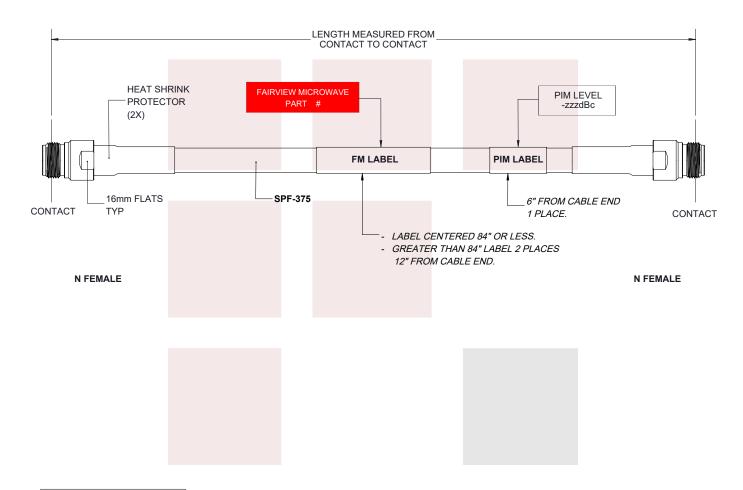
URL: https://www.fairviewmicrowave.com/low-pim-n-female-n-female-cable-spf375-coax-fmca2049-100cm-p.aspx



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FMCA2049-100CM DATA SHEET



STANDARD TOLERANCES .X ±0.2

.XX ±0.01 .XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

| Fairview Microwave | 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]. | | | | | |
|--|---|--------------|------|-----------------|--------|------|
| TITLE | DWG NO FMCA2049 | | | CAGE CODE 3FKR5 | | |
| Fire Rated Low PIM N Female to N Female Cable SPF- 375 Coax in 100 cm Using Times Microwave Parts | CAD FILE 06/05/19 | SHEET 1 OF 1 | SCAL | E N/A | SIZE A | 7361 |