

Fire Rated Low PIM 4.3-10 Male to N Female Cable SPF-375 Coax in 150 cm Using Times Microwave Parts

FMCA2066-150CM

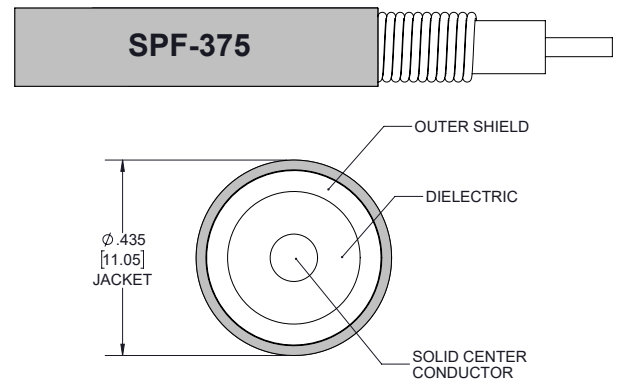


Configuration

- Connector 1: 4.3-10 Male TC-375-4310M-LP
- Connector 2: N Female TC-SPP375-NF-LP
- Cable Type: SPF-375
- Coax Flex Type: Corrugated

Features

- Max Frequency 6 GHz
- Low PIM: -158 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

Description

The 4.3-10 male to type N female 150 cm cable using SPF-375 coax, part number FMCA2066-150CM, from Fairview Microwave is in-stock and ships same day. This Fairview 4.3-10 to type N cable assembly has a male 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 -158 dBc. The FMCA2066-150CM 4.3-10 male 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 | Minimum | Typical | Maximum | Units |
|--|---------|---------|---------|-------|
| Frequency Range | DC | | 6 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 83 | | % |
| Passive Intermodulation | | | -158 | dBc |
| IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz | | | | |

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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------|---------|------------|---------|--------------|
| Capacitance | | 24 [78.74] | | pF/ft [pF/m] |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|------|------|----|-------|
| Frequency | 0.5 | 1 | 2 | 3 | | GHz |
| Insertion Loss (Max.) | 0.32 | 0.41 | 0.55 | 0.65 | | 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*SQRT(FGHz) dB for the male connector and 0.1 dB for the female connector.

Mechanical Specifications

Cable Assembly

| | |
|----------------|----------------------|
| Length | 59.05 in [149.99 cm] |
| Width/Diameter | 0.96 in [24.38 mm] |
| Weight | 0.83 lbs [376.48 g] |

Cable

| | |
|--|----------------------------------|
| Cable Type | SPF-375 |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper Clad Aluminum |
| Dielectric Type | Foam PE |
| Number of Shields | 1 |
| Shield Layer 1 | Helically Corrugated Copper Tube |
| Outer Conductor 1 Material and Plating | Copper |
| Jacket Material | FRPE, Black |
| Jacket Diameter | 0.435 in [11.05 mm] |
| One Time Minimum Bend Radius | 1.75 in [44.45 mm] |

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Connectors

| Description | Connector 1 | Connector 2 |
|---------------------------------------|------------------|------------------|
| Type | 4.3-10 Male | N Female |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Straight | Straight |
| Contact Material and Plating | Brass, Silver | Brass, Silver |
| Contact Plating Specification | 200 µin | 196 µin |
| Dielectric Type | PTFE | PTFE |
| Outer Conductor Material and Plating | | Brass, Tri-Metal |
| Outer Conductor Plating Specification | | 118 µin |
| Body Material and Plating | Brass, Tri-Metal | |
| Body Plating Specification | 80 µin | |
| Coupling Nut Material and Plating | Brass, Nickel | Brass, Tri-Metal |
| Coupling Nut Plating Specification | 200 µin | 118 µin |

Environmental Specifications

| | |
|------------------------------------|------------------|
| Operating Range Temperature | -40 to +85 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. |

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Typical Performance Data



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How to Order

Part Number Configuration: **FMCA2066 - xx uu**

Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number

Example: FMCA2066-12 = 12 inches long cable
FMCA2066-100cm = 100 cm long cable

Fire Rated Low PIM 4.3-10 Male to N Female Cable SPF-375 Coax in 150 cm 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: [Fire Rated Low PIM 4.3-10 Male to N Female Cable SPF-375 Coax in 150 cm Using Times Microwave Parts FMCA2066-150CM](https://www.fairviewmicrowave.com/low-pim-4.3-10-male-n-female-cable-spf375-coax-fmca2066-150cm-p.aspx)

URL: <https://www.fairviewmicrowave.com/low-pim-4.3-10-male-n-female-cable-spf375-coax-fmca2066-150cm-p.aspx>

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FMCA2066-150CM CAD Drawing

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