

## 3 FT Fire Rated Type N to 7/16 DIN F/F SPF-375 Low PIM Cable Jumper

### CASPF375008-3FT

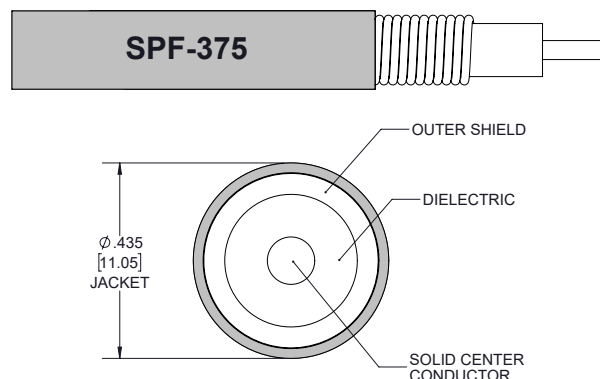


#### Configuration

- Connector 1: 7/16 DIN Female
- Connector 2: N Female
- Cable Type: SPF-375

#### Features

- Max Frequency 5.8 GHz
- Low PIM: -160 dBc Max
- FRPE Jacket
- Shielding Effectivity > 100 dB
- 100% Tested with PIM Test Results Marked on Cable
- 1.25 Inch Minimum Bend Radius
- Low Loss with Excellent VSWR



#### Applications

- Distributed Antennas Systems (DAS)
- Fire Rated Installations
- Low PIM Applications
- Multi-Carrier Communication Systems

#### Description

PolyPhaser CASPF375008-3FT is a 3 FT Fire Rated Type N to 7/16 DIN F/F SPF-375 Low PIM Cable Jumper built using high quality components by skilled technicians to ensure a reliable product. The Type N Female to 7/16 DIN Female jumper connections are designed to industry standard interface dimensions to ensure superior performance. These low PIM corrugated cable assemblies are durable and fire rated for applications that require these parameters. All PolyPhaser cable assemblies are available for same day shipment to fulfill your urgent needs. This high-quality RF coaxial assembly is perfect in many RF Interconnect applications such as fire rated installations, distributed antenna systems (DAS), low PIM applications, and many other RF systems. The CASPF375008-3FT Type N to 7/16 DIN low PIM cable assembly is the perfect companion to PolyPhaser line of products, particularly when used as an antenna jumper.

The three eighths inch low PIM fire rated coax used in these Type N to 7/16 DIN assemblies is a .375 inch diameter copper corrugated coax with a black FRPE jacket. This cable's foam PE dielectric is low loss material with a phase velocity of 83% and offers excellent passive intermodulation (PIM) performance better than -160 dBc. The construction of the three eighths inch copper corrugated jumper results in a minimum bend radius of 1.25 inches. The cable assembly's combination of Type N to 7/16 DIN F/F and Times Microwave's SPF-377 low PIM plenum rated cable supports a maximum operation frequency of 5.8 GHz. Each cable assembly is installed with heat shrink booting on each end and a PIM label with the measured PIM level. You can find detailed performance specifications in the product datasheet. All PolyPhaser assemblies are tested and inspected prior to shipping.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:  
[3 FT Fire Rated Type N to 7/16 DIN F/F SPF-375 Low PIM Cable Jumper CASPF375008-3FT](#)

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#### Electrical Specifications

| Description             | Minimum | Typical    | Maximum | Units        |
|-------------------------|---------|------------|---------|--------------|
| Frequency Range         | DC      |            | 6       | GHz          |
| VSWR                    |         |            | 1.4:1   |              |
| Velocity of Propagation |         | 83         |         | %            |
| Passive Intermodulation |         |            | -158    | dBc          |
| Capacitance             |         | 24 [78.74] |         | pF/ft [pF/m] |

#### Specifications by Frequency

| Description           | F1    | F2     | F3     | F4     | F5     | Units |
|-----------------------|-------|--------|--------|--------|--------|-------|
| Frequency             | 0.25  | 0.5    | 1      | 2.5    | 6      | GHz   |
| Insertion Loss (Max.) | 0.25  | 0.29   | 0.33   | 0.41   | 0.55   | dB    |
| VSWR (Max.)           | 1.4:1 | 1.4:1  | 1.4:1  | 1.4:1  | 1.4:1  |       |
| Return Loss (Max.)    | 15.56 | 15.563 | 15.563 | 15.563 | 15.563 | dB    |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly.  
The Insertion Loss is estimated as 0.1 dB per connector.

#### Mechanical Specifications

##### Size

|          |                      |
|----------|----------------------|
| Length   | 36 in [914.4 mm]     |
| Diameter | 1.14 in [28.96 mm]   |
| Weight   | 0.629 lbs [285.31 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 Material and Plating | Copper                           |
| Outer Conductor Diameter             | 0.38 in [9.65 mm]                |
| Jacket Material                      | FRPE, Black                      |
| Jacket Diameter                      | 0.435 in [11.05 mm]              |

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One Time Minimum Bend Radius 1.75 in [44.45 mm]

#### Connectors

| Description                           | Connector 1             | Connector 2        |
|---------------------------------------|-------------------------|--------------------|
| Type                                  | 7/16 DIN Female         | N Female           |
| Impedance                             | 50 Ohms                 | 50 Ohms            |
| Contact Material and Plating          | Phosphor Bronze, 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, Tri-Metal   |
| Coupling Nut Plating Specification    |                         | 118 µin            |
| Torque                                |                         | 6 in-lbs [0.68 Nm] |

#### Environmental Specifications

##### Temperature

Operating Range -40 to +85 deg C

Environmental Specification Notes:

CMR (Riser) Fire Rated

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### Compliance Certifications

### Plotted and Other Data

Notes:

PolyPhaser protects and increases the reliability of global RF communications networks, including transportation, telecommunications, defense, security and industrial applications, with superior RF surge protection technologies including DC Block, DC Pass and Ultra Low PIM. Backed by responsive service and expert technical support PolyPhaser continually expands its product offering and services to serve engineers' urgent needs for RF components in mission critical communication networks.

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URL: <https://www.polyphaser.com/3-ft-fire-rated-type-n-to-7-16-din-f-f-spf-375-low-pim-cable-jumper-p.aspx>

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## CASPF375008-3FT CAD Drawing

