

## 1 M Outdoor Rated Type N to 7/16 DIN F/M SPO-375 Low PIM Cable Jumper

**CASPO375006-1M**

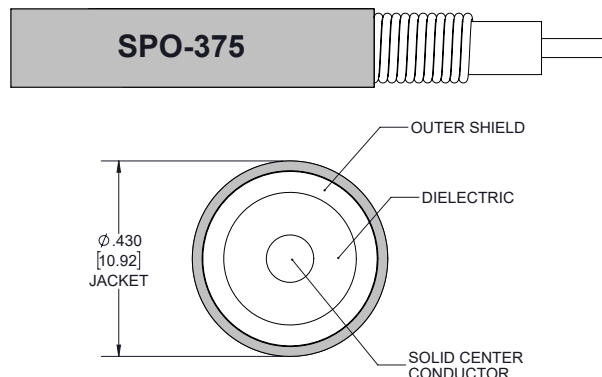


### Configuration

- Connector 1: 7/16 DIN Male
- Connector 2: N Female
- Cable Type: SPO-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)
- Outdoor Installations
- Low PIM Applications
- Multi-Carrier Communication Systems

### Description

PolyPhaser CASPO375006-1M is a 1 M Outdoor Rated Type N to 7/16 DIN F/M SPO-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 Male jumper connections are designed to industry standard interface dimensions to ensure superior performance. These low PIM corrugated cable assemblies are durable and outdoor 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 low PIM applications, outdoor installations, distributed antenna systems (DAS), and many other RF systems. The CASPO375006-1M 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 outdoor 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/M and Times Microwave's SPO-382 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:  
[1 M Outdoor Rated Type N to 7/16 DIN F/M SPO-375 Low PIM Cable Jumper CASPO375006-1M](#)

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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.) | 0.79  | 1.37   | 1.91   | 2.92   | 4.78   | 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   | 39.37 in [100 cm]   |
| Diameter | 1.14 in [28.96 mm]  |
| Weight   | 0.69 lbs [312.98 g] |

##### Cable

|                                      |                                  |
|--------------------------------------|----------------------------------|
| Cable Type                           | SPO-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                      | PE, Black                        |
| Jacket Diameter                      | 0.43 in [10.92 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 Male    | N Female           |
| Impedance                             | 50 Ohms          | 50 Ohms            |
| Contact Material and Plating          | Brass, Silver    | Brass, Silver      |
| Contact Plating Specification         | 5 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            | 3 µin            |                    |
| Coupling Nut Material and Plating     | Brass, Tri-Metal | Brass, Tri-Metal   |
| Coupling Nut Plating Specification    | 3 µin            | 118 µin            |
| Torque                                |                  | 6 in-lbs [0.68 Nm] |

#### Environmental Specifications

##### Temperature

Operating Range -40 to +85 deg C

#### 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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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

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make modifications to the part and/or the documentation of the part, in order to implement improvements. PolyPhaser reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. PolyPhaser does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and PolyPhaser does not assume any liability arising out of the use of any part or documentation.

CASPO375006-1M CAD Drawing

