



## Fire Rated N Male to N Male Low PIM Cable 50 cm Length Using SPF-500 Coax Using Times Microwave Parts

### RF Cable Assemblies Technical Data Sheet

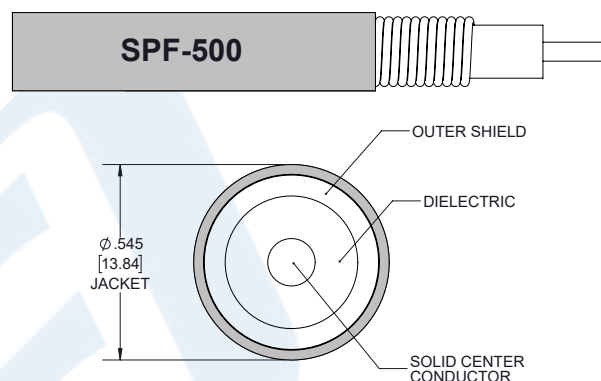
PE3C6374-50CM

#### Configuration

- Connector 1: N Male
- Connector 2: N Male
- Cable Type: SPF-500

#### 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

#### Description

Pasternack's PE3C6374-50CM type N male to type N male 50 cm cable using SPF-500 coax is part of our full line of RF components available for same-day shipping. Pasternack's corrugated RF cable assemblies are ideal for applications where durability and high power are needed. This Pasternack type N to type N cable assembly has a male to male gender configuration with 50 ohm corrugated SPF-500 coax. The PE3C6374-50CM type N male to type N male cable assembly operates to 6 GHz. Our low PIM design also offers excellent passive intermodulation performance with PIM levels better than -160 dBc. 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 available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Fire Rated N Male to N Male Low PIM Cable 50 cm Length Using SPF-500 Coax Using Times Microwave Parts PE3C6374-50CM](#)



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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 |         | -165       | -160    | dBc          |
| Capacitance             |         | 24 [78.74] |         | pF/ft [pF/m] |

#### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4   | F5 | Units |
|-----------------------|------|------|------|------|----|-------|
| Frequency             | 0.5  | 1    | 2    | 6    |    | GHz   |
| Insertion Loss (Max.) | 0.19 | 0.26 | 0.37 | 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 per connector.

#### Mechanical Specifications

##### Cable Assembly

Length\* 19.685 in [500 mm]

##### Cable

Cable Type SPF-500  
 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  
 Jacket Material FRPE, Black  
 Jacket Diameter 0.545 in [13.84 mm]

One Time Minimum Bend Radius 2.25 in [57.15 mm]

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### Connectors

| Description                        | Connector 1         | Connector 2         |
|------------------------------------|---------------------|---------------------|
| Type                               | N Male              | N Male              |
| Impedance                          | 50 Ohms             | 50 Ohms             |
| Contact Material and Plating       | Brass, Silver       | Brass, Silver       |
| Contact Plating Specification      | 200 µin             | 200 µin             |
| Dielectric Type                    | PTFE                | PTFE                |
| Body Material and Plating          | Brass, Tri-Metal    | Brass, Tri-Metal    |
| Body Plating Specification         | 80 µin              | 80 µin              |
| Coupling Nut Material and Plating  | Brass, Tri-Metal    | Brass, Tri-Metal    |
| Coupling Nut Plating Specification | 80 µin              | 80 µin              |
| Torque                             | 10 in-lbs [1.13 Nm] | 10 in-lbs [1.13 Nm] |

Mechanical Specification Notes:

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8"$ , whichever is greater.

### Environmental Specifications

#### Temperature

Operating Range

-55 to +200 deg C

Storage Range

-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.

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### Typical Performance Data



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PE3C6374-50CM

#### How to Order

Part Number Configuration:

**PE3C6374**

- **xx**

**uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

Example: PE3C6374-12 = 12 inches long cable  
PE3C6374-100cm = 100 cm long cable

Fire Rated N Male to N Male Low PIM Cable 50 cm Length Using SPF-500 Coax Using Times Microwave Parts from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Fire Rated N Male to N Male Low PIM Cable 50 cm Length Using SPF-500 Coax Using Times Microwave Parts PE3C6374-50CM](https://www.pasternack.com/n-male-n-male-spf500-cable-assembly-pe3c6374-50cm-p.aspx)

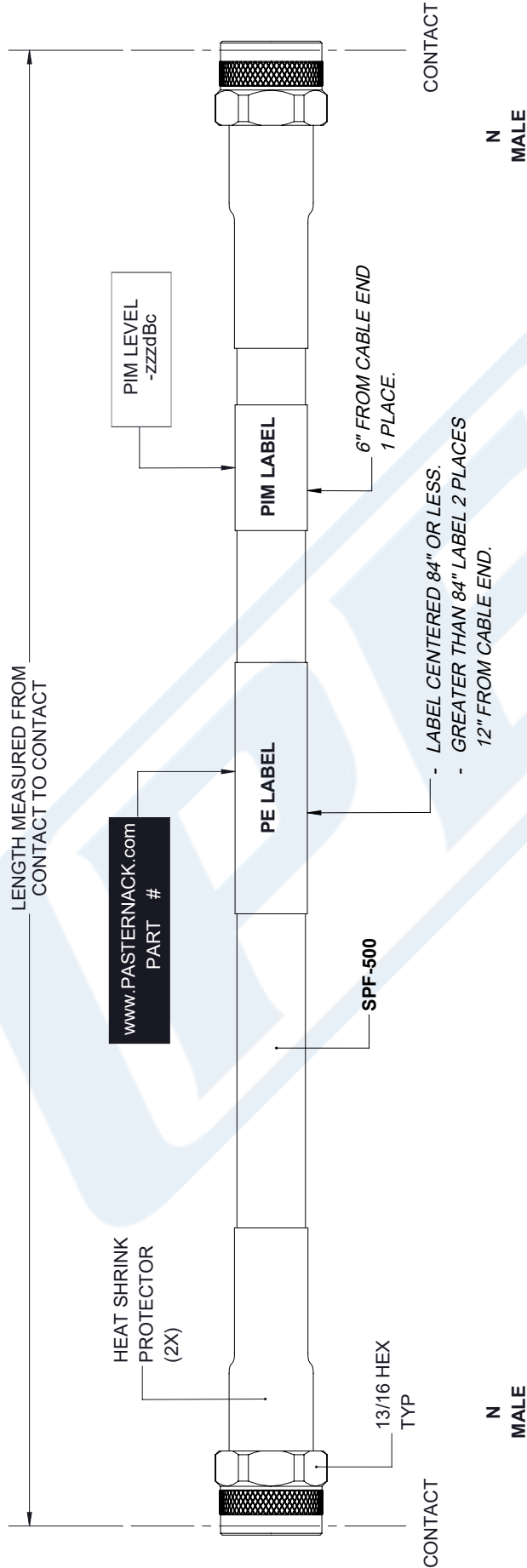
URL: <https://www.pasternack.com/n-male-n-male-spf500-cable-assembly-pe3c6374-50cm-p.aspx>

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# PE3C6374-50CM CAD Drawing

Fire Rated N Male to N Male Low PIM Cable 50 cm Length  
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| REVISIONS |                 |          |          |
|-----------|-----------------|----------|----------|
| REV.      | DESCRIPTION     | DATE     | APPROVED |
| A         | INITIAL RELEASE | 05/20/19 | SELLIS   |



|  |             |
|--|-------------|
| UNLESS OTHERWISE SPECIFIED<br>LEADING DIMENSIONS ARE INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS |             |
| TOLERANCES:  | FRACTIONS   |
| X±.2 [5.08]  | ±.132       |
| .XX±.01 [.25]  | ±.13        |
| .XXX±.005 [.13]  | ANGLES ± 1° |
| ALL DIMENSIONS SHOWN<br>ARE FOR REFERENCE ONLY.  |             |
| THIRD-ANGLE PROJECTION   |             |

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|---|-------------|
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| SIZE  | PART NUMBER |
| A   | 53919       |
| DRAWN BY  | REV         |
| K.DANG  | PE3C6374    |

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