



Fire Rated 7/16 DIN Male to N Male Low PIM Cable 36 Inch Length Using SPF-250 Coax Using Times Microwave Parts

RF Cable Assemblies Technical Data Sheet

PE3C6357-36

Configuration

- Connector 1: 7/16 DIN Male
- Connector 2: N Male
- Cable Type: SPF-250

Features

- Max Frequency 5.8 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 PE3C6357-36 7/16 DIN male to type N male 36 inch cable using SPF-250 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 7/16 DIN to type N cable assembly has a male to male gender configuration with 50 ohm corrugated SPF-250 coax. The PE3C6357-36 7/16 DIN male to type N male cable assembly operates to 5.8 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 7/16 DIN Male to N Male Low PIM Cable 36 Inch Length Using SPF-250 Coax Using Times Microwave Parts PE3C6357-36](#)



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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------|---------|--------------|---------|--------------|
| Frequency Range | DC | | 5.8 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 83 | | % |
| Passive Intermodulation | | -165 | -160 | dBc |
| Capacitance | | 24 [78.74] | | pF/ft [pF/m] |
| Inductance | | 0.054 [0.18] | | uH/ft [uH/m] |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency | 0.45 | 0.7 | 1 | 2.5 | 5.8 | GHz |
| Insertion Loss (Max.) | 0.26 | 0.33 | 0.39 | 0.63 | 0.99 | 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 $0.1 \cdot \sqrt{FGHz}$ dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.42 lbs [190.51 g]

Cable

Cable Type SPF-250
 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 0.303 in [7.7 mm]

One Time Minimum Bend Radius 1.25 in [31.75 mm]
 Bending Moment 0.5 lbs-ft [0.68 N-m]

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Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------------|-----------------------|----------------------|
| Type | 7/16 DIN Male | N Male |
| Impedance | 50 Ohms | 50 Ohms |
| Mating Cycles | | 500 |
| 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, Nickel | Brass, Tri-Metal |
| Coupling Nut Plating Specification | 80 µin | 80 µin |
| Torque | 22.127 ft-lbs [30 Nm] | 9.74 in-lbs [1.1 Nm] |

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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How to Order

Part Number Configuration:

PE3C6357

- **xx**

uu

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

Example: PE3C6357-12 = 12 inches long cable
PE3C6357-100cm = 100 cm long cable

Fire Rated 7/16 DIN Male to N Male Low PIM Cable 36 Inch Length Using SPF-250 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 7/16 DIN Male to N Male Low PIM Cable 36 Inch Length Using SPF-250 Coax Using Times Microwave Parts PE3C6357-36](https://www.pasternack.com/7-16-din-male-n-male-spf250-cable-assembly-pe3c6357-36-p.aspx)

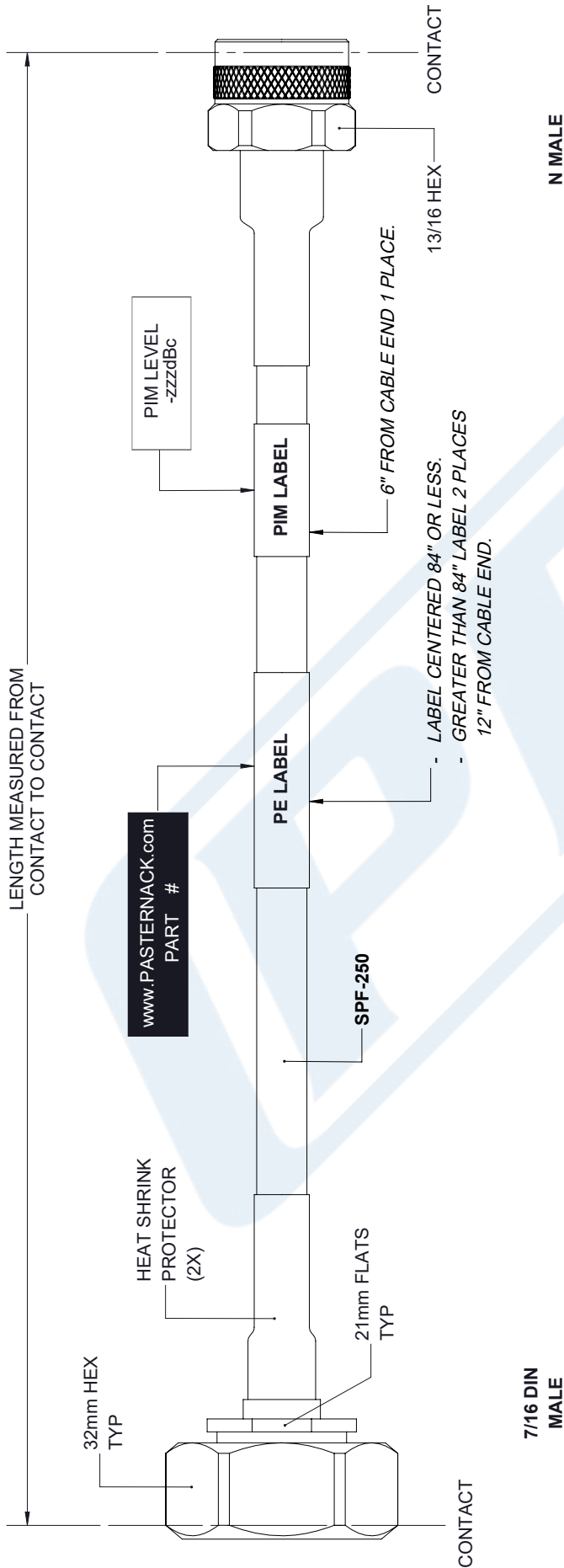
URL: <https://www.pasternack.com/7-16-din-male-n-male-spf250-cable-assembly-pe3c6357-36-p.aspx>

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PE3C6357-36 CAD Drawing

Fire Rated 7/16 DIN Male to N Male Low PIM Cable 36 Inch Length
Using SPF-250 Coax Using Times Microwave Parts

| REVISIONS | | | |
|-----------|-----------------|----------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | INITIAL RELEASE | 05/16/19 | S.ELLIS |



7/16 DIN
MALE

N MALE

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

PE PASTERNAK
an INFINITO brand

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SIZE: A CAGE: 53919 DRAWN BY: K.DANG PART NUMBER: PE3C6357 REV: A

| | |
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| SHEET 1 | OF 1 |
| SCALE | N/A |

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