



Plenum 7/16 DIN Female to N Female Low PIM Cable Using SPP-375-LLPL Coax Using Times Microwave Parts

RF Cable Assemblies Technical Data Sheet

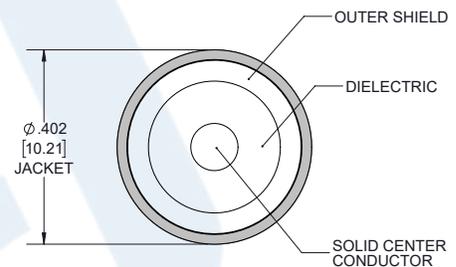
PE3C8517

Configuration

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

Features

- Max Frequency 5.8 GHz
- Low PIM: -160 dBc Max
- Shielding Effectivity > 100 dB
- 76% Phase Velocity
- FEP Jacket
- 100% Tested with PIM Test Results Marked on Cable
- UL910 Plenum Rated 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
- CMP Plenum Rated Installations
- Distributed Antenna Systems (DAS)
- Multi-Carrier Communication Systems
- PIM Testing

Description

Pasternack's PE3C8517 7/16 DIN female to type N female cable using SPP-375-LLPL 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 female to female gender configuration with 50 ohm corrugated SPP-375-LLPL coax. The PE3C8517 7/16 DIN female to type N female cable assembly operates to 5.8 GHz. Our low PIM design also offers excellent passive intermodulation performance with PIM levels better than -160 dBc.

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: [Plenum 7/16 DIN Female to N Female Low PIM Cable Using SPP-375-LLPL Coax Using Times Microwave Parts PE3C8517](#)



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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------------|---------|--------------|---------|-----------------|
| Frequency Range | DC | | 5.8 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 76 | | % |
| RF Shielding | 100 | | | dB |
| Passive Intermodulation | | | -160 | dBc |
| Capacitance | | 26.2 [85.96] | | pF/ft [pF/m] |
| Inductance | | 0.067 [0.22] | | uH/ft [uH/m] |
| DC Resistance Inner Conductor | | 1.3 [4.27] | | Ω/1000ft [Ω/Km] |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|-------|-------|-------|-------|-------|-------|
| Frequency | 0.25 | 0.5 | 1 | 2.5 | 5.8 | GHz |
| Insertion Loss (Typ.) | 0.019 | 0.029 | 0.039 | 0.065 | 0.103 | dB |
| | 0.06 | 0.1 | 0.13 | 0.21 | 0.34 | |

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1*SQRT(FGHz) dB per connector.

Mechanical Specifications

Cable Assembly

Length* 0 in [0 mm]
 Diameter 0 in [0 mm]

Cable

Cable Type SPP-375-LLPL
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper Clad Aluminum
 Dielectric Type Microporous PTFE
 Number of Shields 1
 Outer Conductor Material and Plating Copper
 Jacket Material FEP, Blue
 Jacket Diameter 0.402 in [10.21 mm]

One Time Minimum Bend Radius 1.25 in [31.75 mm]

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Bending Moment 1.7 lbs-ft [2.31 N-m]

Connectors

| Description | Connector 1 | Connector 2 |
|---------------------------------------|-------------------------|--------------------|
| Type | 7/16 DIN Female | N Female |
| Impedance | 50 Ohms | 50 Ohms |
| Mating Cycles | 500 | |
| 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 | 100 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 +125 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:

PE3C8517

- **xx**

uu

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

Example: PE3C8517-12 = 12 inches long cable
PE3C8517-100cm = 100 cm long cable

Plenum 7/16 DIN Female to N Female Low PIM Cable Using SPP-375-LLPL 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.

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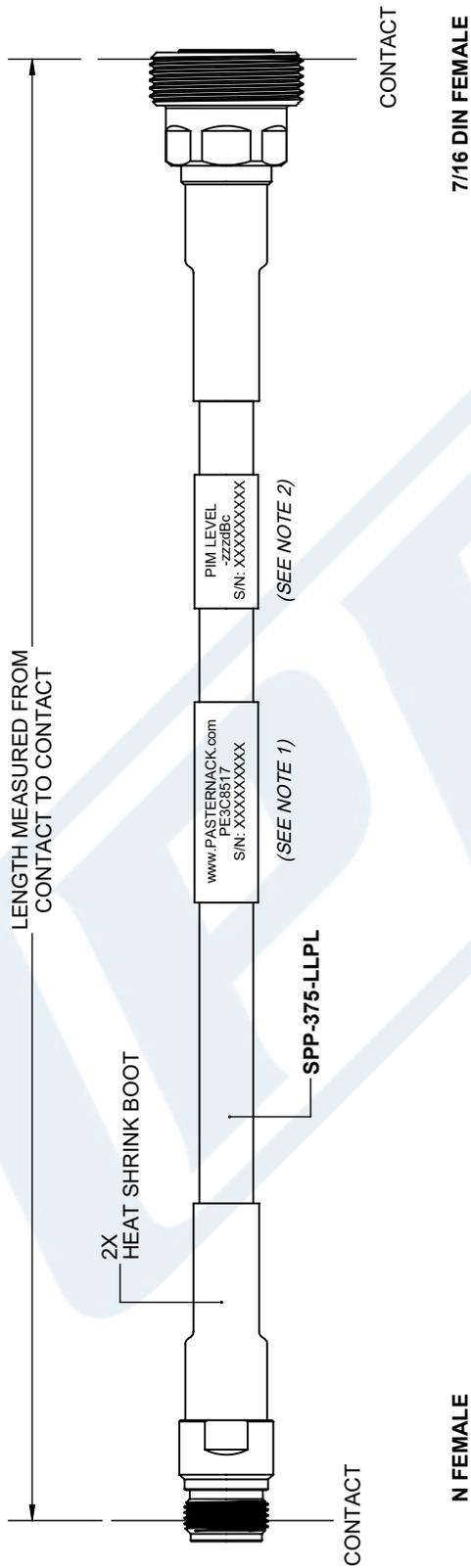
URL: <https://www.pasternack.com/7-16-din-female-n-female-spp375llpl-cable-assembly-pe3c8517-p.aspx>

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

PE3C8517 CAD Drawing

Plenum 7/16 DIN Female to N Female Low PIM Cable Using SPP-375-LLPL Coax Using Times Microwave Parts

| REVISIONS | | | |
|-----------|-----------------|-----------|------------|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | INITIAL RELEASE | 9/21/2021 | A. GANWANI |



NOTES:

1. CABLES 84" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 84" HAVE 2 LABELS, ONE AT EACH END 12.0" FROM THE END OF THE CONNECTOR.
2. 6" FROM CABLE END 1 PLACE FOR ALL LENGTHS OF CABLE.

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

| | |
|--|------------------|
| UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS | |
| TOLERANCES: | |
| .X = ±.2 [.008] | FRACTIONS ±.1/32 |
| .XX = ±.02 [.51] | ANGLES ± 1° |
| .XXX = ±.005 [.13] | |
| CABLE LENGTH (L), TOLERANCES: | |
| L ≤ 12 [305] | ±.1 [25] |
| 12 [305] < L ≤ 60 [1524] | ±.2 [51] |
| 60 [1524] < L ≤ 120 [3048] | ±.4 [102] |
| 120 [3048] < L ≤ 300 [7620] | ±.6 [152] |
| 300 [7620] < L | ±.5% [-0 |
| ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. | |

PE PASTERNAK
an INFINITE brand

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| | | |
|------|----------|----------|
| SIZE | DRAWN BY | ITEM NO. |
| A | K.DANG | PE3C8517 |

| | |
|------------------------|--------|
| THIRD-ANGLE PROJECTION | 1 OF 1 |
| SCALE | N/A |
| REV | A |