



Plenum 7/16 DIN Male Right Angle to NEX10 Male Low PIM Cable 100 cm Length Using SPP- 250-LLPL Coax Using Times Microwave Parts

RF Cable Assemblies Technical Data Sheet

PE3C6252-100CM

Configuration

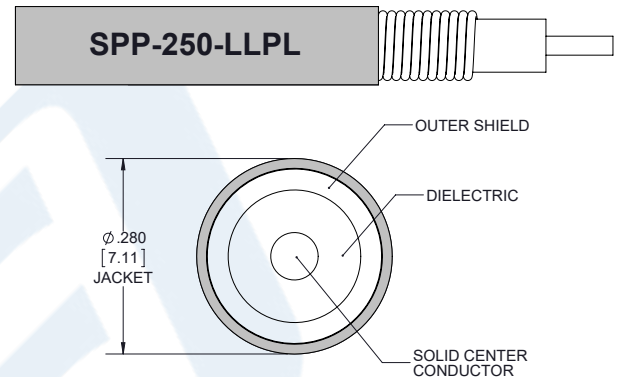
- Connector 1: TC-SPP250-716M-RA-LP
7/16 DIN Male Right Angle
- Connector 2: TC-250-XNM-LP
NEX10 Male
- Cable: SPP-250-LLPL

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
- Distributed Antenna Systems (DAS)
- Plenum Installations
- Multi-Carrier Communication Systems
- PIM Testing



Description

Pasternack's PE3C6252-100CM 7/16 DIN male right angle to NEX10 male 100 cm cable using SPP-250-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 NEX10 cable assembly has a male to male gender configuration with 50 ohm corrugated SPP-250-LLPL coax. The PE3C6252-100CM 7/16 DIN male to NEX10 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. The right angle 7/16 DIN interface on the SPP-250-LLPL cable allows for easier connections in tight spaces. 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: [Plenum 7/16 DIN Male Right Angle to NEX10 Male Low PIM Cable 100 cm Length Using SPP-250-LLPL Coax Using Times Microwave Parts PE3C6252-100CM](#)



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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 | | -165 | -160 | dBc |
| Capacitance | | 27 [88.58] | | pF/ft [pF/m] |
| Inductance | | 0.067 [0.22] | | uH/ft [uH/m] |
| DC Resistance Inner Conductor | | 3 [9.84] | | 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 (Max.) | 0.3 | 0.35 | 0.39 | 0.57 | 0.84 | 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 dB for the right angle connector and $0.1 \cdot \text{SQRT}(\text{FGHz})$ dB for the straight connector.

Mechanical Specifications

Cable Assembly

| Description | Minimum | Typical | Maximum | Units |
|------------------------------|---------|--------------|---------|---------|
| Length | | 39.4 [100.0] | | in [cm] |
| Jacket Diameter | | 0.28 [7.11] | | in [mm] |
| One Time Minimum Bend Radius | 1.25 | | | in |
| Bending Moment | | 0.8 | | lbs-ft |

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Cable Characteristics

| Description | Specification |
|--------------------------------------|----------------------------------|
| Cable Type | SPP-250-LLPL |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper |
| Dielectric Type | PTFE |
| Number of Shields | 1 |
| Shield Layer 1 | Helically Corrugated Copper Tube |
| Outer Conductor Material and Plating | Copper |
| Outer Conductor Diameter | 0.25 in [6.35 mm] |
| Jacket Material | FEP, Blue |

Connector Characteristics

| Description | Connector 1 | Connector 2 |
|------------------------------------|---------------------------|---------------------|
| Type | 7/16 DIN Male Right Angle | NEX10 Male |
| Impedance | 50 Ohms | 50 Ohms |
| Mating Cycles | | 500 |
| Contact Material and Plating | Brass, Silver | Brass, Silver |
| Contact Plating Specification | 196µ in | 100 µin |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Nickel | Brass, Tri-Metal |
| Body Plating Specification | 118µ in | 100 µin |
| Coupling Nut Material and Plating | Brass, Nickel | Brass, Tri-Metal |
| Coupling Nut Plating Specification | 118µ in | 100 µin |
| Torque | 22.127 ft-lbs 30 Nm | 13.28 in-lbs 1.5 Nm |

Mechanical Specification Notes:

Environmental Specifications

| Description | Specification |
|-----------------------------|-------------------|
| Temperature Operating Range | -55 to +200 deg C |
| Temperature Storage Range | -55 to +200 deg C |
| Plenum Rating | UL910 |

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

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

Typical Performance Data



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How to Order

Part Number Configuration:

PE3C6252

- **xx**

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

Example: PE3C6252-12 = 12 inches long cable
PE3C6252-100cm = 100 cm long cable

Plenum 7/16 DIN Male Right Angle to NEX10 Male Low PIM Cable 100 cm Length Using SPP-250-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.

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 Male Right Angle to NEX10 Male Low PIM Cable 100 cm Length Using SPP-250-LLPL Coax Using Times Microwave Parts PE3C6252-100CM](https://www.pasternack.com/7-16-din-male-nex10-male-spp250llpl-cable-assembly-pe3c6252-100cm-p.aspx)

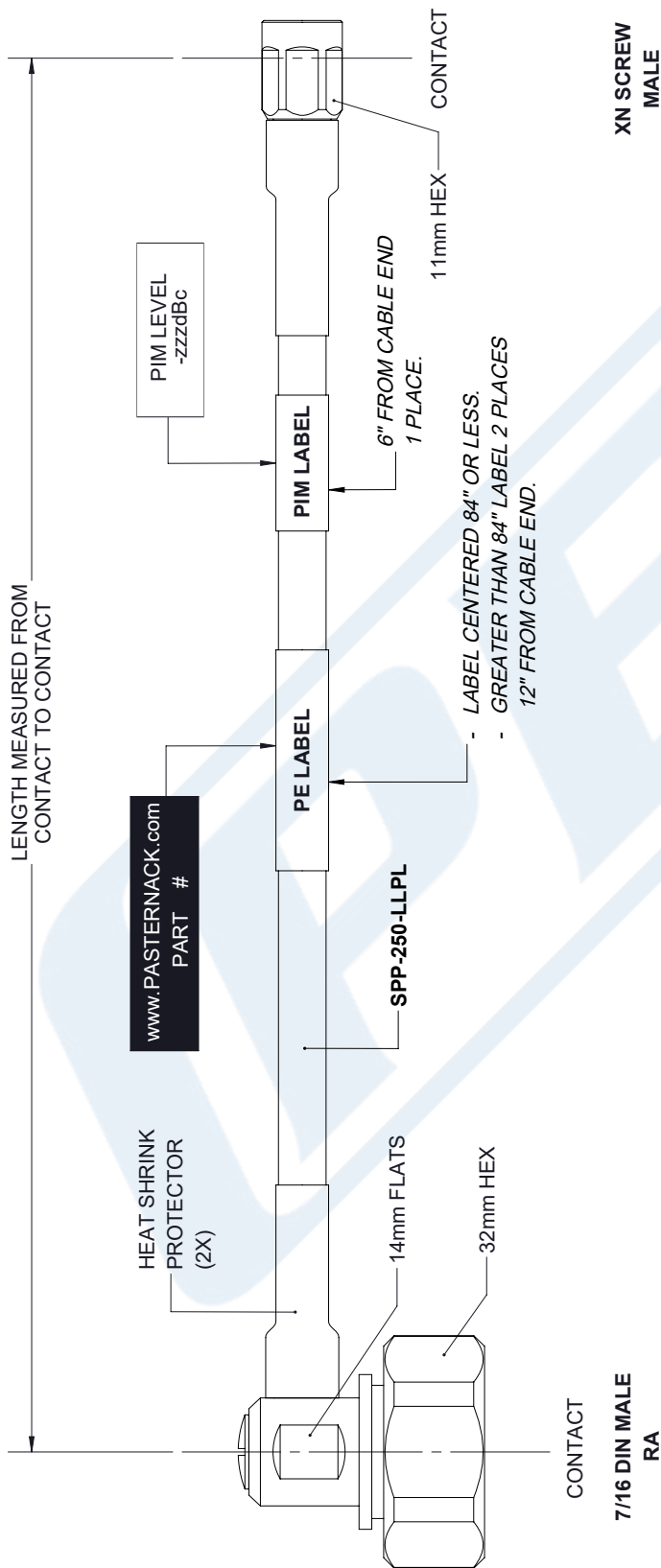
URL: <https://www.pasternack.com/7-16-din-male-nex10-male-spp250llpl-cable-assembly-pe3c6252-100cm-p.aspx>

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PE3C6252-100CM CAD Drawing

Plenum 7/16 DIN Male Right Angle to NEX10 Male Low PIM Cable 100 cm Length Using SPP-250-LLPL Coax Using Times Microwave Parts

| REVISIONS | | | |
|-----------|-----------------|----------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | INITIAL RELEASE | 04/09/19 | S. ELLIS |



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

| | | | | | |
|--|--------|--|----------|----|---|
| <p>PASTERNAK an INFINITO brand</p> <p>Pasternack Enterprises, Inc. P.O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920 1.866.727.8376 Fax: 1.949.261.7451 www.pasternack.com e-mail: sales@pasternack.com</p> | | THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION. ALL RIGHTS RESERVED. | | | |
| SIZE | A | SHEET | 1 | OF | 1 |
| CAGE | 53919 | SCALE | N/A | | |
| DRAWN BY | K.DANG | PART NUMBER | PE3C6252 | | |
| REV | A | | | | |

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