



Outdoor Rated 7/16 DIN Male to NEX10 Male Low PIM Cable
50 cm Length Using SPO-250 Coax Using Times Microwave Parts

RF Cable Assemblies Technical Data Sheet

PE3C6344-50CM

Configuration

- Connector 1: 7/16 DIN Male
- Connector 2: NEX10 Male
- Cable Type: SPO-250

Features

- Max Frequency 5.8 GHz
- Low PIM: -160 dBc Max
- 83% Phase Velocity
- PE 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 PE3C6344-50CM 7/16 DIN male to NEX10 male 50 cm cable using SPO-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 NEX10 cable assembly has a male to male gender configuration with 50 ohm corrugated SPO-250 coax. The PE3C6344-50CM 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. 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: [Outdoor Rated 7/16 DIN Male to NEX10 Male Low PIM Cable 50 cm Length Using SPO-250 Coax Using Times Microwave Parts PE3C6344-50CM](#)



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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.) | 0.21 | 0.26 | 0.31 | 0.49 | 0.76 | 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] |
| Diameter | 1.14 in [28.96 mm] |

Cable

| | |
|--------------------------------------|----------------------------------|
| Cable Type | SPO-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 | PE, 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 | NEX10 Male |
| Impedance | 50 Ohms | 50 Ohms |
| Mating Cycles | | 500 |
| Contact Material and Plating | Brass, Silver | Brass, Silver |
| Contact Plating Specification | 200 µin | 100 µin |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Body Plating Specification | 80 µin | 100 µin |
| Coupling Nut Material and Plating | Brass, Nickel | Brass, Tri-Metal |
| Coupling Nut Plating Specification | 80 µin | 100 µin |
| Torque | 22.127 ft-lbs [30 Nm] | 13.28 in-lbs [1.5 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 |

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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How to Order

Part Number Configuration:

PE3C6344

- **xx**

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

Example: PE3C6344-12 = 12 inches long cable
PE3C6344-100cm = 100 cm long cable

Outdoor Rated 7/16 DIN Male to NEX10 Male Low PIM Cable 50 cm Length Using SPO-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: [Outdoor Rated 7/16 DIN Male to NEX10 Male Low PIM Cable 50 cm Length Using SPO-250 Coax Using Times Microwave Parts PE3C6344-50CM](https://www.pasternack.com/7-16-din-male-nex10-male-spo250-cable-assembly-pe3c6344-50cm-p.aspx)

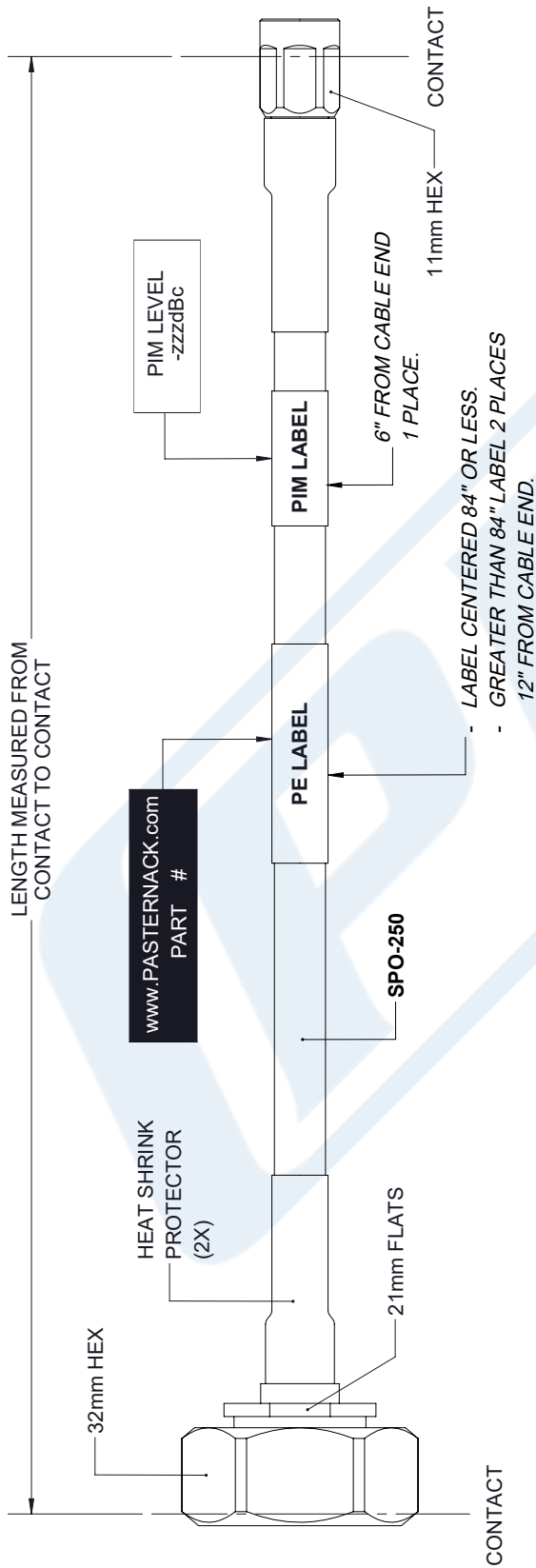
URL: <https://www.pasternack.com/7-16-din-male-nex10-male-spo250-cable-assembly-pe3c6344-50cm-p.aspx>

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PE3C6344-50CM CAD Drawing

Outdoor Rated 7/16 DIN Male to NEX10 Male Low PIM Cable 50 cm
Length Using SPO-250 Coax Using Times Microwave Parts

| REVISIONS | | | |
|-----------|-----------------|----------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | INITIAL RELEASE | 05/17/19 | SELLIS |



XN SCREW
MALE

7/16 DIN
MALE

| | |
|---|-----------|
| UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [] ARE MILLIMETERS | |
| TOLERANCES: | FRACTIONS |
| X±.2 [5.08] | ±.132 |
| .XX±.01 [.25] | ±.005 |
| .XXX±.005 [.13] | ±.001 |
| ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. | |
| THIRD-ANGLE PROJECTION | |



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| | | | | |
|------|-------|----------|-------------|-----|
| SIZE | CAGE | DRAWN BY | PART NUMBER | REV |
| A | 53919 | K.DANG | PE3C6344 | A |

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

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