



Outdoor Rated 7/16 DIN Male to N Male
Right Angle Low PIM Cable 12 Inch Length Using
SPO-250 Coax Using Times Microwave Parts

RF Cable Assemblies Technical Data Sheet

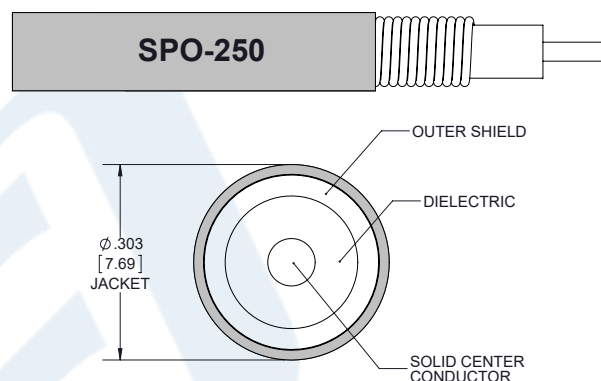
PE3C6343-12

Configuration

- Connector 1: 7/16 DIN Male
- Connector 2: N Male Right Angle
- 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 PE3C6343-12 7/16 DIN male to type N male right angle 12 inch 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 type N cable assembly has a male to male gender configuration with 50 ohm corrugated SPO-250 coax. The PE3C6343-12 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. The right angle type N interface on the SPO-250 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: [Outdoor Rated 7/16 DIN Male to N Male Right Angle Low PIM Cable 12 Inch Length Using SPO-250 Coax Using Times Microwave Parts PE3C6343-12](#)



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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.) | 0.18 | 0.22 | 0.27 | 0.42 | 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* | 12 in [304.8 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 | N Male Right Angle |
| 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, Nickel | Brass, Tri-Metal |
| Coupling Nut Plating Specification | 80 µin | 80 µin |
| Torque | 22.127 ft-lbs [30 Nm] | 15.05 in-lbs [1.7 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:

PE3C6343

- **xx**

uu

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

Example: PE3C6343-12 = 12 inches long cable
PE3C6343-100cm = 100 cm long cable

Outdoor Rated 7/16 DIN Male to N Male Right Angle Low PIM Cable 12 Inch 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 N Male Right Angle Low PIM Cable 12 Inch Length Using SPO-250 Coax Using Times Microwave Parts PE3C6343-12](https://www.pasternack.com/7-16-din-male-n-male-spo250-cable-assembly-pe3c6343-12-p.aspx)

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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.

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Technical drawing of a cable assembly with the following components and labels:

- Labels:**
 - PE LABEL** (shaded blue)
 - PIM LABEL** (white)
- Dimensions and Measurements:**
 - 32mm HEX TYP** (at the left end)
 - 21mm FLATS** (at the left end)
 - HEAT SHRINK PROTECTOR (2X)** (at the left end)
 - 6" FROM CABLE END 1 PLACE.** (pointing to the PIM LABEL)
 - 13/16 HEX** (at the right end)
 - 12" FROM CABLE END.** (pointing to the PE LABEL)
 - LENGTH MEASURED FROM CONTACT TO CONTACT** (overall dimension line)
- Other Labels:**
 - www.PASTERNAK.com PART #** (pointing to the PE LABEL)
 - PIM LEVEL -zzzdBc** (pointing to the PIM LABEL)
 - SPO-250** (pointing to the cable body)
 - CONTACT** (at both ends)
 - N MALE RA** (at the right end)
 - 7/16 DIN MALE** (at the left end)

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