



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

### RF Cable Assemblies Technical Data Sheet

PE3C6343

#### 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 7/16 DIN male to type N male right angle 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 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 Using SPO-250 Coax Using Times Microwave Parts PE3C6343](#)



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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.)	0.041	0.051	0.062	0.103	0.167	dB/ft
	0.13	0.17	0.2	0.34	0.55	dB/m

**Electrical Specification Notes:**

PIM test results vary between cables

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as  $0.1 \cdot \sqrt{\text{FGHz}}$  dB per connector.

**Mechanical Specifications**

**Cable Assembly**

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]

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Bending Moment 0.5 lbs-ft [0.68 N-m]

### 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 ± 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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### RF Cable Assemblies Technical Data Sheet

PE3C6343

#### 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 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 Using SPO-250 Coax Using Times Microwave Parts PE3C6343](#)

URL: <https://www.pasternack.com/7-16-din-male-n-male-spo250-cable-assembly-pe3c6343-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.

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**LENGTH MEASURED FROM CONTACT TO CONTACT**

The diagram illustrates a cable assembly with various components and labels. Key features include:

- HEAT SHRINK PROTECTOR (2X)**: Two heat shrink protectors are shown on the cable.
- 32mm HEX TYP**: A dimension indicating the typical hex size of the heat shrink protector.
- PE LABEL**: A label positioned on the cable, with a note stating "6\" from CABLE END 1 PLACE."
- PIM LEVEL -ZZZdBc**: A label indicating the PIM level, with a note stating "6\" from CABLE END 1 PLACE."
- SPO-250**: A label indicating the type of cable or connector.
- 21mm FLATS**: A dimension indicating the flat width of the cable.
- CONTACT**: The end of the cable assembly, labeled as "N MALE RA".
- 7/16 DIN MALE**: A dimension indicating the male connector size.
- 13/16 HEX**: A dimension indicating the hex size of the contact.
- Labels and Dimensions**:
  - "LABEL CENTERED 84\" OR LESS."
  - "GREATER THAN 84\" LABEL 2 PLACES"
  - "12\" FROM CABLE END."

**www.PASTERNAK.com PART #**

**(PE) PASTERNAK an INFINITI brand**

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**UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS**

**TOLERANCES:**

X±.2	[5.08]	FRACTIONS
.XX±.01	[.25]	± 1/32
.XXX±.005	[.13]	ANGLES ± 1°

**ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.**

**THIRD ANGLE PROJECTION**

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**SHEET 1 OF 1**

**SCALE N/A**

**REV A**

**SIZE A**

**CAGE 53919**

**DRAWN BY K.DANG**

**PART NUMBER PE3C6343**

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