

## Fire Rated N Male Right Angle to N Male Right Angle Low PIM Cable Using SPO-250 Coax With Times Microwave Parts



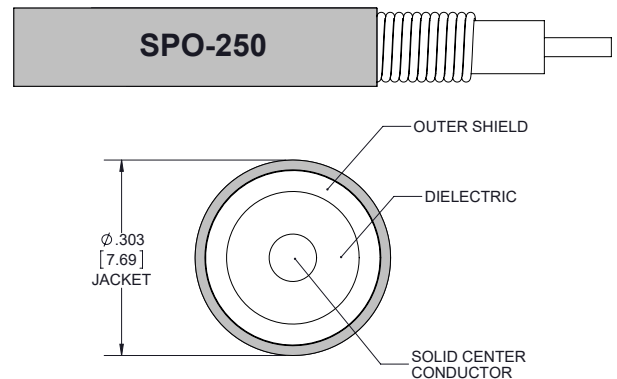
### PE3C7529

#### Configuration

- Connector 1: N Male Right Angle
- Connector 2: N Male Right Angle
- Cable Type: SPO-250
- Coax Flex Type: Corrugated

#### Features

- Max Frequency 5.8 GHz
- Low PIM: -160 dBc Max
- 83% Phase Velocity
- PE Jacket



#### Applications

- General Purpose
- Laboratory Use
- Low PIM Applications

#### Description

Pasternack's PE3C7529 type N male right angle 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 type N to type N cable assembly has a male to male gender configuration with 50 ohm corrugated SPO-250 coax. The PE3C7529 type N 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 interfaces on the SPO-250 cable allow for easier connections in tight spaces.

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.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR			1.4:1	
Velocity of Propagation		83		%
Passive Intermodulation IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz			-160	dBc
Capacitance		24 [78.74]		pF/ft [pF/m]

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**PE3C7529**

**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Inductance		0.054 [0.18]		uH/ft [uH/m]

**Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.022	0.042	0.06	0.103	0.166	dB/ft
	0.07	0.14	0.2	0.34	0.54	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB per connector.

**Mechanical Specifications**

**Cable Assembly**

Width/Diameter	0.5 in [12.7 mm]
Weight	0.342 lbs [155.13 g]

**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
Outer Conductor 1 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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**PE3C7529**

**Connectors**

Description	Connector 1	Connector 2
Type	N Male Right Angle	N Male Right Angle
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Right Angle
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, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	80 μin	80 μin

**Environmental Specifications**

Operating Range Temperature -40 to +85 deg C

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

**Plotted and Other Data**

Notes:

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### PE3C7529

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3C7529**

**- xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C7529-12 = 12 inches long cable  
PE3C7529-100cm = 100 cm long cable

Fire Rated N Male Right Angle to N Male Right Angle Low PIM Cable Using SPO-250 Coax With 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: [Fire Rated N Male Right Angle to N Male Right Angle Low PIM Cable Using SPO-250 Coax With Times Microwave Parts PE3C7529](https://www.pasternack.com/fire-rated-n-male-right-angle-to-n-male-right-angle-low-pim-cable-using-spo-250-coax-with-times-microwave-parts-pe3c7529)

URL: <https://www.pasternack.com/fire-rated-n-male-right-angle-to-n-male-low-pim-cable-using-spo-250-pe3c7529-p.aspx>

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# PE3C7529 CAD Drawing

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