

## Waterproof IP68 7/16 DIN Male (Plug) Right Angle to N Male (Plug) Low Loss Cable Using SPO-250 Coax with Times Microwave Components

### PE3C8504/WP



#### Configuration

- Connector 1: 7/16 DIN Male Right Angle
- Connector 2: N Male
- Cable Type: SPO-250
- Coax Flex Type: Flexible

#### Features

- Max Frequency 6 GHz
- Low PIM: -160 dBc Max
- 83% Phase Velocity
- PE Jacket
- Silicone Connector Boot
- IP68 Rated

#### Applications

- General Purpose
- Laboratory Use

#### Description

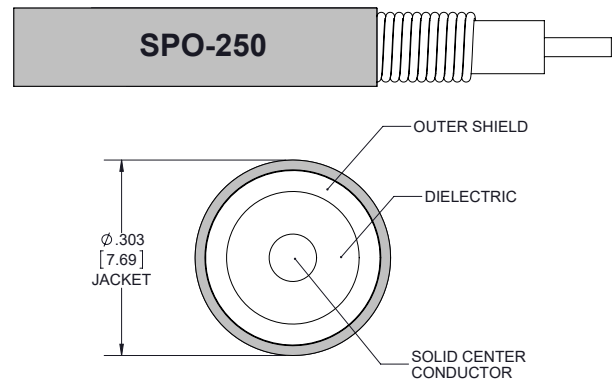
The Pasternack PE3C8504/WP is a weatherproof low loss cable assembly that comes with 7/16 DIN male connection on one end and type N male with weatherproof boot on the other. Pasternack's RF coaxial cable assembly products are designed for typical use, production, laboratory test and measurement, defense/military, aerial antenna towers, etc. The low loss cable has a 50 Ohm impedance and is specifically ready for quicker shipment than most in the industry can provide.

This weatherproof low loss RF cable assembly operates at a maximum frequency of 6 GHz. Our RF cable assembly has a PE jacket with 0.303 inches diameter. The 7/16 DIN male to type N male cable assembly PE3C8504/WP is built with SPO-250 coax, which has a flexible design. This RF cable assembly with 0.5 inches diameter has copper clad aluminum as cable's inner conducting material and foam PE dielectric type. The weatherproof boot low loss cable can operate at a temperature range of -40 to 85 degrees C. Additional dimensions, specifications, and CAD drawings for this PE3C8504/WP low loss RF cable are available on our downloadable PDF datasheet.

Pasternack stocks a wide selection of weatherproof low loss cable assemblies that ship the same business day as ordered from our warehouse. Make your online purchase right now to take advantage of our same-day shipping. For further information on similar products, our expert technical support and knowledgeable sales team can help you get the ideal 7/16 DIN male to type N male cable assembly as per your requirements.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.4:1	
Velocity of Propagation		83		%
Passive Intermodulation			-160	dBc
IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz				
Capacitance		24 [78.74]		pF/ft [pF/m]



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### Electrical Specifications

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

### Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
		Frequency	500	1000	2500	6000	MHz	
PE3C8504/WP	Custom Lengths Available	Insertion Loss (Typ.)	0.057	0.041	0.068	0.108	dB/ft	
			0.19	0.14	0.23	0.36	dB/m	
PE3C8504/WP-24	24 In	Insertion Loss (Typ.)	0.33	0.39	0.5	0.67	dB	0.741
PE3C8504/WP-36	36 In	Insertion Loss (Typ.)	0.36	0.43	0.57	0.77	dB	0.788
PE3C8504/WP-60	60 In	Insertion Loss (Typ.)	0.42	0.51	0.7	0.99	dB	0.882
PE3C8504/WP-50CM	50 CM	Insertion Loss (Typ.)	0.32	0.37	0.47	0.63	dB	0.725

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1:	0.2 dB
Loss due to Connector 2:	0.1*SQRT(FGHz) dB
Base Weight:	0.694 pounds
Additional Weight per Inch:	0.00391 pounds

### Mechanical Specifications

#### Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.694 lbs [314.79 g]

#### Cable

Cable Type	SPO-250
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper Clad Aluminum
Dielectric Type	Foam PE
Outer Conductor 1 Material and Plating	Copper, Corrugated
Jacket Material	PE
Jacket Diameter	0.303 in [7.7 mm]
One Time Minimum Bend Radius	1 in [25.4 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 Right Angle	N Male
Option		Weatherproof Boot
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Contact Material and Plating	Brass, Silver	Phosphor Bronze, Silver
Contact Plating Specification	200 µin minimum	196 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	100 µin minimum	118 µin minimum
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	100 µin minimum	118 µin minimum
Boot Material	Silicone	Silicone

### Environmental Specifications

Operating Range Temperature	-40 to +85 deg C
Ingress Protection (IP) Rating	IP68

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

### Plotted and Other Data

Notes:  
Values at 25°C, sea level.

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## PE3C8504/WP

### Typical Performance Data

### How to Order

Part Number Configuration:

**PE3C8504/WP**

**- xx**

**uu**

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

Example: PE3C8504/WP-12 = 12 inches long cable  
PE3C8504/WP-100cm = 100 cm long cable

Waterproof IP68 7/16 DIN Male (Plug) Right Angle to N Male (Plug) Low Loss Cable Using SPO-250 Coax with Times Microwave Components 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: [Waterproof IP68 7/16 DIN Male \(Plug\) Right Angle to N Male \(Plug\) Low Loss Cable Using SPO-250 Coax with Times Microwave Components PE3C8504/WP](https://www.pasternack.com/waterproof-ip68-7-16-din-male-plug-right-angle-to-n-male-plug-low-loss-cable-using-spo-250-pe3c8504-wp-p.aspx)

URL: <https://www.pasternack.com/waterproof-ip68-7-16-din-male-plug-right-angle-to-n-male-plug-low-loss-cable-using-spo-250-pe3c8504-wp-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3C8504/WP CAD Drawing

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