



RF Cable Assemblies Technical Data Sheet

PE3C8506

Configuration

Connector 1: 7/16 DIN Male Right Angle
Connector 2: N Female Bulkhead

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

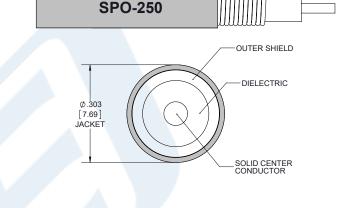
Applications

- General Purpose
- Laboratory Use
- Low PIM Applications
- Outdoor Rated Applications
- Distributed Antenna Systems (DAS)
- Multi-Carrier Communication Systems
- PIM Testing

Description

Pasternack's PE3C8506 7/16 DIN male right angle to type N female bulkhead 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 female gender configuration with 50 ohm corrugated SPO-250 coax. The PE3C8506 7/16 DIN male to type N female 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 7/16 DIN interface on the SPO-250 cable allows for easier connections in tight spaces. Our RF cable assembly with type N bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

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 Right Angle to N Female Bulkhead Low PIM Cable Using SPO-250 Coax Using Times Microwave Parts PE3C8506

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451





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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR		/ J.S.	1.4:1	
Velocity of Propagation		83		%
Passive Intermodulation			-160	dBc
Capacitance		24 [78.74]		pF/ft [pF/m]
Inductance		0.054 [0.18]		uH/ft [uH/m]

Specifications by Frequency	Spec	ifications	by F	requency
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Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.03	0.043	0.062	0.103	0.167	dB
	0.1	0.14	0.2	0.34	0.55	

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1*SQRT(FGHz) dB per connector.

Mechanical Specifications

Cable Assembly

Length* 0 in [0 mm]
Diameter 0 in [0 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

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 N Female Bulkhead	
Туре	7/16 DIN Male Right Angle		
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Brass, Silver	Phosphor Bronze, Silver	
Contact Plating Specification	196 µin	196 µin	
Dielectric Type	PTFE	PTFE	
Outer Conductor Material and Plating		Brass, Tri-Metal	
Outer Conductor Plating Specification		118 µin	
Body Material and Plating	Brass, Nickel	Brass, Tri-Metal	
Body Plating Specification	118 µin	118 µin	
Coupling Nut Material and Plating	Brass, Nickel		
Coupling Nut Plating Specification	118 µin		
Torque		6 in-lbs [0.68 Nm]	

Environmental Specifications

TemperatureOperating Range

-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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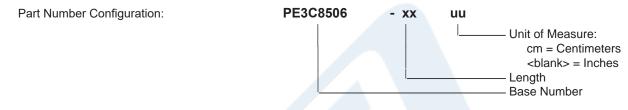




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How to Order



Example: PE3C8506-12 = 12 inches long cable PE3C8506-100cm = 100 cm long cable

Outdoor Rated 7/16 DIN Male Right Angle to N Female Bulkhead 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.

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URL: https://www.pasternack.com/7-16-din-male-n-female-spo250-cable-assembly-pe3c8506-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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