

Outdoor Rated N Male to N Female Low PIM Cable 100 CM Length Using SPO-250 Coax Using Times Microwave Parts



RF Cable Assemblies Technical Data Sheet

PE3C8508-100CM

OUTER SHIFLD

DIELECTRIC

SOLID CENTER CONDUCTOR

Configuration

Connector 1: N MaleConnector 2: N FemaleCable Type: SPO-250

Cable Type. 3FO-2

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

Ø 303

[7.69]

SPO-250

Applications

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

Description

Pasternack's PE3C8508-100CM type N male to type N female 100 cm 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 female gender configuration with 50 ohm corrugated SPO-250 coax. The PE3C8508-100CM type N 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.

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			-160	dBc

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Outdoor Rated N Male to N Female Low PIM Cable 100 CM Length Using SPO-250 Coax Using Times Microwave Parts PE3C8508-100CM

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

Sales@Pasternack.com • Techsupport@Pasternack.com

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Capacitance

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pF/ft [pF/m]

dΒ

Inductance			0.0		uH/ft [uH/m]	
Specifications by Fre	equency					
Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz

24 [78.74]

0.66

1.03

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1*SQRT(FGHz) dB per connector.

0.41

Mechanical Specifications

Cable Assembly

Insertion Loss (Typ.)

 Length*
 39.37 in [100 cm]

 Diameter
 0 in [0 mm]

0.29

0.2

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 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	
Туре	N Male	N Female	
Impedance	50 Ohms	50 Ohms	
Mating Cycles		500	
Contact Material and Plating	Phosphor Bronze, Silver	Brass, Silver	
Contact Plating Specification	196 µin	200 μin	
Dielectric Type	PTFE	PTFE	
Outer Conductor Material and Plating		Brass, Tri-Metal	
Outer Conductor Plating Specification		100 μin	
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal	
Body Plating Specification	118 µin	100 μin	
Coupling Nut Material and Plating	Brass, Tri-Metal		
Coupling Nut Plating Specification	118 µin		
Torque	7.08 in-lbs [0.8 Nm]	9.74 in-lbs [1.1 Nm]	

Environmental Specifications

Temperature

Operating Range

-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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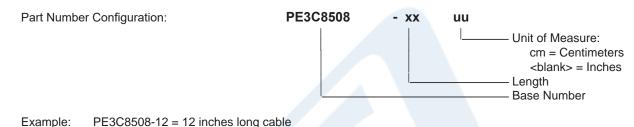
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How to Order



Outdoor Rated N Male to N Female Low PIM Cable 100 CM 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

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URL: https://www.pasternack.com/n-male-n-female-spo250-cable-assembly-pe3c8508-100cm-p.aspx

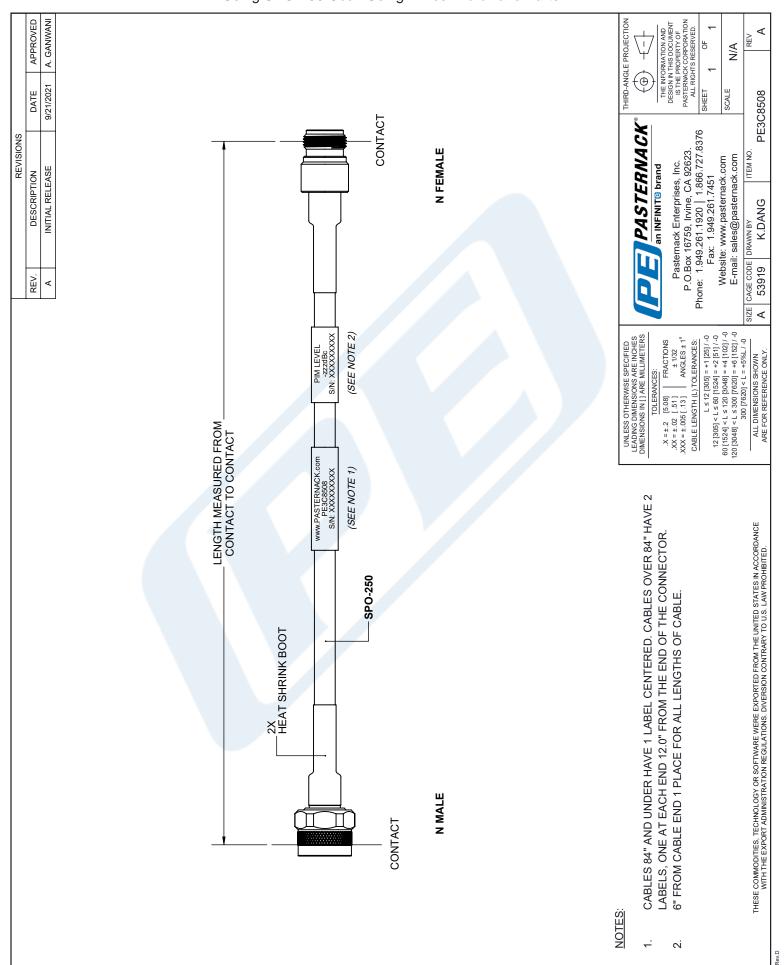
millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

PE3C8508-100cm = 100 cm long cable

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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PE3C8508-100CM CAD Drawing
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Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Pasternack:

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