

Outdoor Rated N Male to N Female Low PIM Cable Using SPO-250 Coax



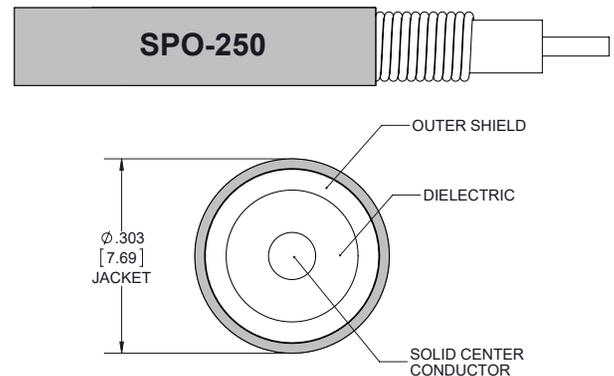
PE3C8379

Configuration

- Connector 1: N Male
- Connector 2: N Female
- 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 PE3C8379 type N male to type N female 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 PE3C8379 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 IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz			-160	dBc
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

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.033	0.042	0.06	0.103	0.166	dB/ft
	0.11	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 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.222 lbs [100.7 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]

Connectors

Description	Connector 1	Connector 2
Type	N Male	N Female
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Silver	Bronze, Silver
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Brass, Tri-Metal
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Material and Plating	Brass, Tri-Metal	

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Environmental Specifications

Operating Range Temperature -40 to +85 deg C

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

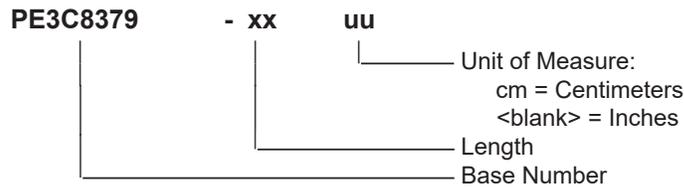
Plotted and Other Data

Notes:

Typical Performance Data

How to Order

Part Number Configuration:



Example: PE3C8379-12 = 12 inches long cable
PE3C8379-100cm = 100 cm long cable

Outdoor Rated N Male to N Female Low PIM Cable Using SPO-250 Coax 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.

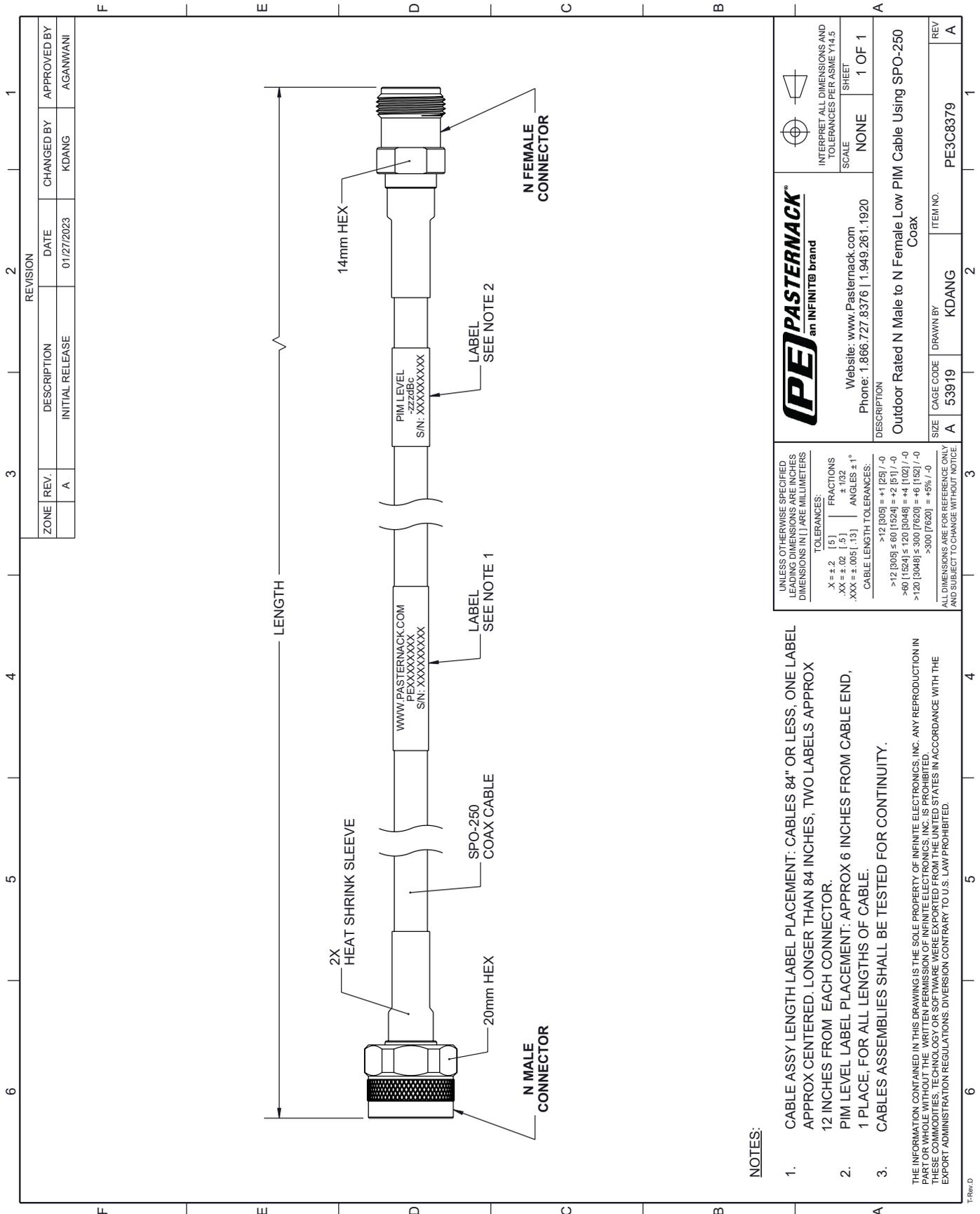
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Outdoor Rated N Male to N Female Low PIM Cable Using SPO-250 Coax PE3C8379](#)

URL: <https://www.pasternack.com/outdoor-rated-n-male-to-n-female-low-pim-cable-using-spo-250-pe3c8379-p.aspx>

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PE3C8379 CAD Drawing

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NOTES:

1. CABLE ASSY LENGTH LABEL PLACEMENT: CABLES 84" OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 84 INCHES, TWO LABELS APPROX 12 INCHES FROM EACH CONNECTOR.
2. PIM LEVEL LABEL PLACEMENT: APPROX 6 INCHES FROM CABLE END, 1 PLACE, FOR ALL LENGTHS OF CABLE.
3. CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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<p>UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE IN MILLIMETERS.</p>	<p>WEBSITE: www.Pasternack.com</p> <p>PHONE: 1.866.727.8376 1.949.261.1920</p>	<p>SCALE: NONE</p> <p>SHEET: 1 OF 1</p>
<p>TOLERANCES:</p> <p>X ± .2 [5] FRACTIONS ± 1/32</p> <p>.XX ± .02 [5] ANGLES ± 1°</p> <p>.XXX ± .005 [13]</p> <p>CABLE LENGTH TOLERANCES:</p> <p>>12 [805] = +1 [23] / -0</p> <p>>60 [1524] = 60 [1524] = +2 [51] / -0</p> <p>>120 [3048] = 120 [3048] = +4 [102] / -0</p> <p>>300 [7620] = 300 [7620] = +8 [254] / -0</p>	<p>DESCRIPTION: Outdoor Rated N Male to N Female Low PIM Cable Using SPO-250 Coax</p>	<p>REV: A</p>
<p>ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.</p>	<p>SIZE: A</p> <p>CAGE CODE: 53919</p> <p>DRAWN BY: KDANG</p> <p>ITEM NO: PE3C8379</p>	<p>REV: A</p>