

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



RF Cable Assemblies Technical Data Sheet

PE3C6345

Configuration

• Connector 1: N Male · Connector 2: N Male • Cable Type: SPO-250

Features

- Max Frequency 5.8 GHz
- Low PIM: -160 dBc Max
- 83% Phase Velocity
- PE Jacket
- 500 Mating Cycles
- 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
- Distributed Antenna Systems (DAS)
- Multi-Carrier Communication Systems
- PIM Testing

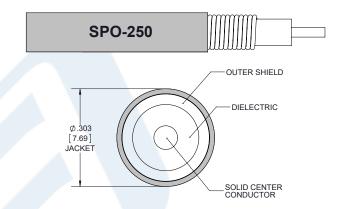
Low PIM Applications

Description

Pasternack's PE3C6345 type N male to type N male 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 PE3C6345 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. Times Microwave cable is used in each assembly and TMS components are used to form connections with the super flexible low PIM cable. These cable assemblies are expertly built to satisfy your specific need with high quality Times Microwave Systems manufactured parts.

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 N Male to N Male Low PIM Cable Using SPO-250 Coax Using Times Microwave Parts PE3C6345



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



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



RF Cable Assemblies Technical Data Sheet

PE3C6345

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR		200	1.4:1	
Velocity of Propagation		83		%
Passive Intermodulation		-165	-160	dBc
Capacitance		24 [78.74]		pF/ft [pF/m]
Inductance		0.054 [0.18]		uH/ft [uH/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.45	0.7	1	2.5	5.8	GHz
Insertion Loss (Max.)	0.041	0.051	0.062	0.103	0.167	dB/ft
	0.13	0.17	0.2	0.34	0.55	dB/m

Electrical Specification Notes:

PIM test results vary between cables

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

Diameter 0.63 in [16 mm]

Cable

Cable Type SPO-250 Impedance 50 Ohms Inner Conductor Type Solid

Inner Conductor Material and Plating Copper Clad Aluminum

Foam PE Dielectric Type

Number of Shields

Shield Layer 1 Helically Corrugated Copper Tube

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]

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 Male Low PIM Cable Using SPO-250 Coax Using Times Microwave Parts PE3C6345

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



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



RF Cable Assemblies Technical Data Sheet

PE3C6345

Bending Moment

0.5 lbs-ft [0.68 N-m]

Connectors

Description	Connector 1	Connector 2		
Туре	N Male	N Male		
Impedance	50 Ohms	50 Ohms		
Mating Cycles	500	500		
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		
Torque	9.74 in-lbs [1.1 Nm]	9.74 in-lbs [1.1 Nm]		

Mechanical Specification Notes:

Environmental Specifications

Temperature

Operating Range -55 to +200 deg C Storage Range -55 to +200 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Values at 25°C, sea level.

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 Male Low PIM Cable Using SPO-250 Coax Using Times Microwave Parts PE3C6345

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

^{*}All cable assemblies have a length tolerance of 1.5% or \pm 3/8", whichever is greater.



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



RF Cable Assemblies Technical Data Sheet

PE3C6345



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 Male Low PIM Cable Using SPO-250 Coax Using Times Microwave Parts PE3C6345

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



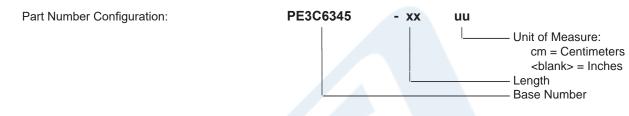
Outdoor Rated N Male to N Male Low PIM Cable Using SPO-250 Coax Using Times Microwave Parts



RF Cable Assemblies Technical Data Sheet

PE3C6345

How to Order



Example: PE3C6345-12 = 12 inches long cable PE3C6345-100cm = 100 cm long cable

Outdoor Rated N Male to N Male 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.

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 Male Low PIM Cable Using SPO-250 Coax Using Times Microwave Parts PE3C6345

URL: https://www.pasternack.com/n-male-n-male-spo250-cable-assembly-pe3c6345-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.

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

PE3C6345 CAD Drawing
Outdoor Rated N Male to N Male Low PIM Cable Using SPO-250 Coax Using Times Microwave Parts

