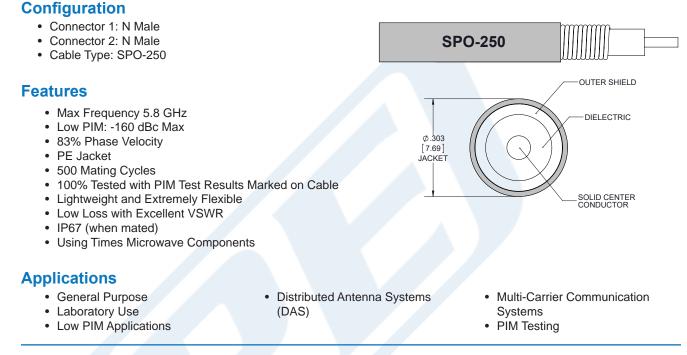




PE3C6345-50CM

## **RF Cable Assemblies Technical Data Sheet**



### Description

Pasternack's PE3C6345-50CM type N male to type N male 50 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 male gender configuration with 50 ohm corrugated SPO-250 coax. The PE3C6345-50CM 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 50 cm Length Using SPO-250 Coax Using Times Microwave Parts PE3C6345-50CM

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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### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR			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.)	0.21	0.26	0.31	0.49	0.76	dB

**Electrical Specification Notes:** 

PIM test results vary between cables

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

#### **Mechanical Specifications**

<b>Cable Assembly</b>
Length*
Diameter

#### Cable

Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Shield Layer 1 Outer Conductor Material and Plating Jacket Material Jacket Diameter

One Time Minimum Bend Radius Bending Moment

19.685 in [500 mm] 0.63 in [16 mm]

SPO-250 50 Ohms Solid Copper Clad Aluminum Foam PE 1 Helically Corrugated Copper Tube Copper PE, Black 0.303 in [7.7 mm]

1.25 in [31.75 mm] 0.5 lbs-ft [0.68 N-m]

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#### Connectors

Description	Connector 1	Connector 2 N Male	
Туре	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:

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

### **Environmental Specifications**

Temperature Operating Range Storage Range

-55 to +200 deg C -55 to +200 deg C

Compliance Certifications (see product page for current document)

### Plotted and Other Data

Notes:

Values at 25°C, sea level.

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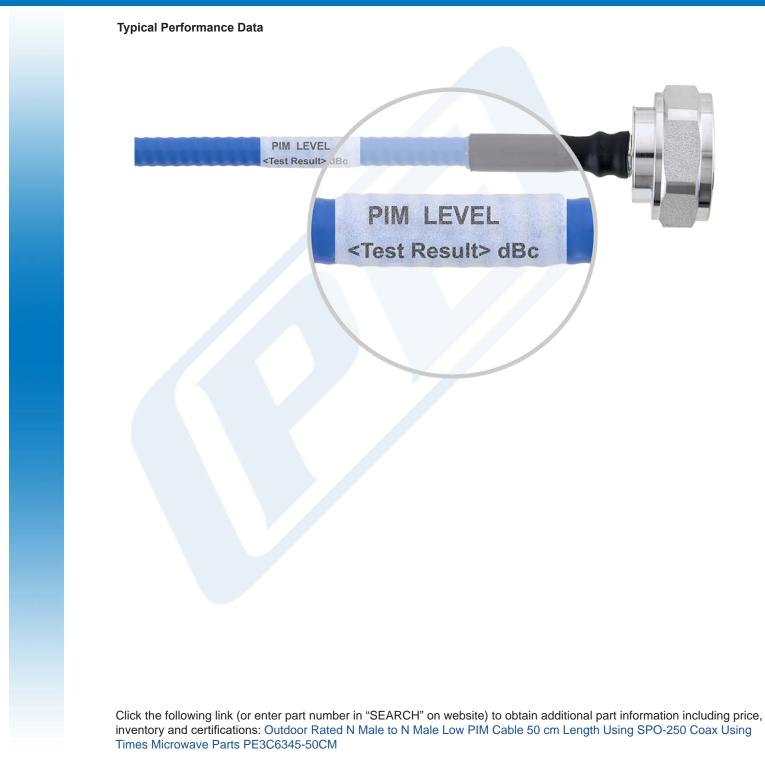
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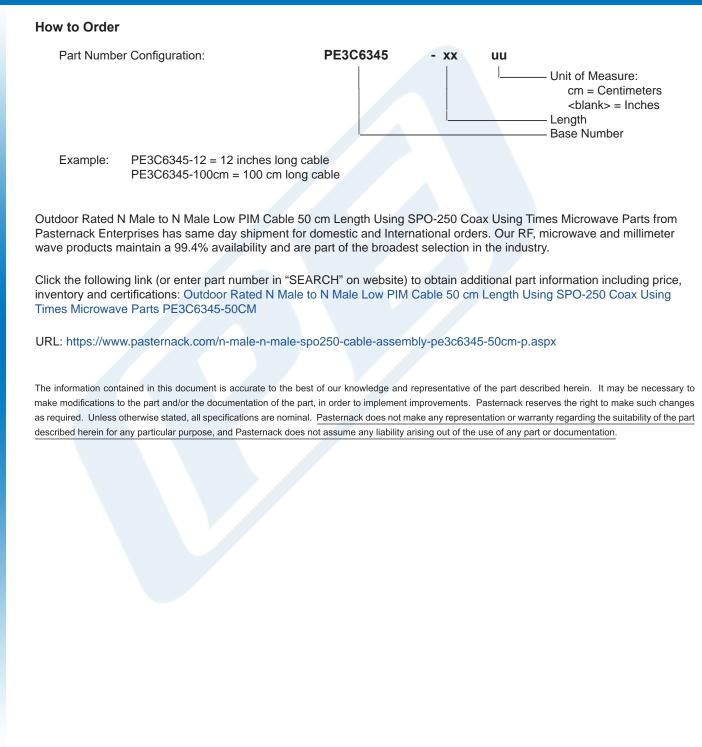
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PE3C6345-50CM CAD Drawing Outdoor Rated N Male to N Male Low PIM Cable 50 cm Length Using SPO-250 Coax Using Times Microwave Parts

