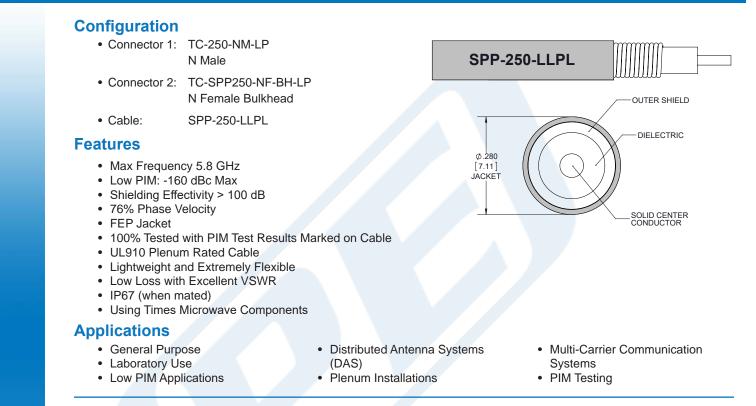




PE3C6201-24

RF Cable Assemblies Technical Data Sheet



Description

Pasternack's PE3C6201-24 type N male to type N female bulkhead 24 inch cable using SPP-250-LLPL 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 SPP-250-LLPL coax. The PE3C6201-24 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. 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. 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: Plenum N Male to N Female Bulkhead Low PIM Cable 24 Inch Length Using SPP-250-LLPL Coax Using Times Microwave Parts PE3C6201-24

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		76		%
RF Shielding	100			dB
Passive Intermodulation		-165	-160	dBc
Capacitance		27 [88.58]		pF/ft [pF/m]
Inductance		0.067 [0.22]		uH/ft [uH/m]
DC Resistance Inner Conductor		3 [9.84]		Ω/1000ft [Ω/Km]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.45	0.7	1	2.5	5.8	GHz
Insertion Loss (Max.)	0.25	0.29	0.32	0.45	0.65	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 for the male connector and 0.1 for the female connector.

Mechanical Specifications

Cable Assembly

Description	Minimum	Typical	Maximum	Units
Length		24.0 [609.6]		in [mm]
Jacket Diameter		0.28 [7.11]		in [mm]
One Time Minimum Bend Radius	1.25			in
Bending Moment		0.8		lbs-ft
5				

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Cable Characteristics

LPL
S
Copper Tube
-
mm]
2

Connector Characteristics

Description	Connector 1	Connector 2	
Туре	N Male	N Female Bulkhead	
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Phosphor Bronze, Silver	Phosphor Bronze, Silver	
Contact Plating Specification	196µ in	196µ in	
Dielectric Type	PTFE	PTFE	
Outer Conductor Material and Plating		Brass, Tri-Metal	
Outer Conductor Plating Specification		118µ in	
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal	
Body Plating Specification	118µ in	118µ in	
Coupling Nut Material and Plating	Brass, Tri-Metal		
Coupling Nut Plating Specification	118µ in		
Torque	9.74 in-lbs 1.1 Nm	10 in-lbs 1.13 Nm	

Mechanical Specification Notes:

Environmental Specifications

Specification	
-55 to +200 deg C	
-55 to +200 deg C	
UL910	
	-55 to +200 deg C -55 to +200 deg C

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RF Cable Assemblies Technical Data Sheet PE3C6201-24 Compliance Certifications (see product page for current document) **Plotted and Other Data** Notes: • Values at 25°C, sea level. **Typical Performance Data** PIM LEVEL Test Result> dBc **PIM LEVEL** <Test Result> dBc

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PE3C6201-24

Plenum N Male to N Female Bulkhead Low PIM Cable 24 Inch Length Using SPP-250-LLPL Coax Using Times Microwave Parts

RF Cable Assemblies Technical Data Sheet

How to Order Part Number Configuration: PE3C6201 - XX uu Unit of Measure: cm = Centimeters <blank> = Inches Length Base Number Example: PE3C6201-12 = 12 inches long cable PE3C6201-100cm = 100 cm long cable Plenum N Male to N Female Bulkhead Low PIM Cable 24 Inch Length Using SPP-250-LLPL 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: Plenum N Male to N Female Bulkhead Low PIM Cable 24 Inch Length Using SPP-250-LLPL Coax Using Times Microwave Parts PE3C6201-24 URL: https://www.pasternack.com/n-male-n-female-spp250llpl-cable-assembly-pe3c6201-24-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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PE3C6201-24 CAD Drawing Plenum N Male to N Female Bulkhead Low PIM Cable 24 Inch Length

Using SPP-250-LLPL Coax Using Times Microwave Parts

