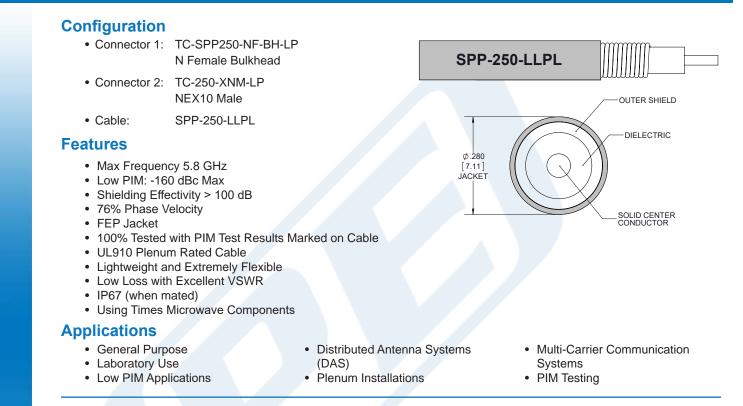




PE3C6255

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



#### Description

Pasternack's PE3C6255 type N female bulkhead to NEX10 male 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 NEX10 cable assembly has a female to male gender configuration with 50 ohm corrugated SPP-250-LLPL coax. The PE3C6255 type N female to NEX10 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. 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 Female Bulkhead to NEX10 Male Low PIM Cable Using SPP-250-LLPL Coax Using Times Microwave Parts PE3C6255

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

### PE3C6255

#### **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]	
nductance		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.)	0.038	0.048	0.057	0.094	0.148	dB/ft
	0.12	0.16	0.19	0.31	0.49	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 dB for the female connector and 0.1\*SQRT(FGHz) dB for the male connector.

#### **Mechanical Specifications**

#### Cable Assembly

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

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

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**Cable Characteristics** 

Description	Specification			
Cable Type	SPP-250-LLPL			
Impedance	50 Ohms			
Inner Conductor Type	Solid			
Inner Conductor Material and Plating	Copper			
Dielectric Type	PTFE			
Number of Shields	1			
Shield Layer 1	Helically Corrugated Copper Tube			
Outer Conductor Material and Plating	Copper			
Outer Conductor Diameter	0.25 in [6.35 mm]			
Jacket Material	FEP, Blue			

#### **Connector Characteristics**

Description	Connector 1	Connector 2 NEX10 Male	
Туре	N Female Bulkhead		
Impedance	50 Ohms	50 Ohms	
Mating Cycles		500	
Contact Material and Plating	Phosphor Bronze, Silver	Brass, Silver	
Contact Plating Specification	196 µin	100 µin	
Dielectric Type	PTFE	PTFE	
Outer Conductor Material and Plating	Brass, Tri-Metal		
Outer Conductor Plating Specification	118 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		100 µin	
Torque	10 in-lbs 1.13 Nm	13.28 in-lbs 1.5 Nm	

Mechanical Specification Notes:

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# **RF Cable Assemblies Technical Data Sheet**

Description	Specification
Temperature Operating Range	-55 to +200 deg C
Temperature Storage Range	-55 to +200 deg C
Plenum Rating	UL910
Compliance Certifications (see product	page for current document)
Plotted and Other Data Notes:	
<ul> <li>Values at 25°C, sea level.</li> </ul>	
Typical Performance Data	
PIM LEVEL	
<test result=""></test>	
	PIM LEVEL
	and the second
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	ber in "SEARCH" on website) to obtain additional part information including

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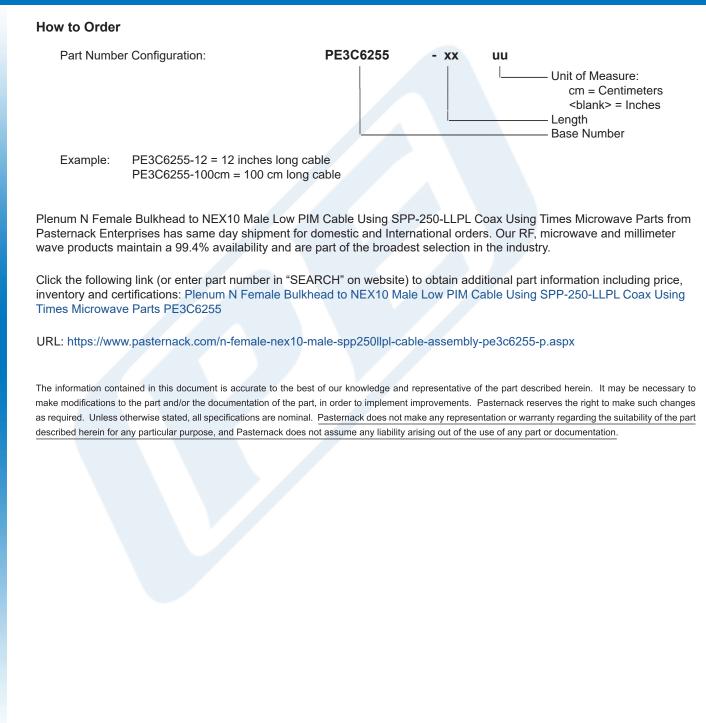
### **PE3C6255**





# **RF Cable Assemblies Technical Data Sheet**

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SPP-250-LLPL Coax Using Times Microwave Parts

