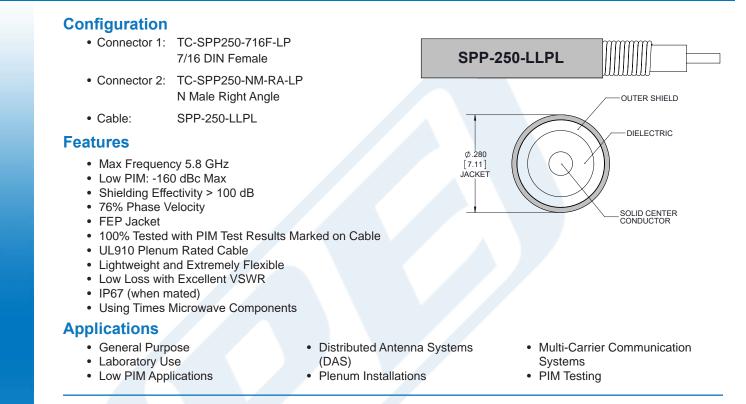




PE3C6244

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



#### Description

Pasternack's PE3C6244 7/16 DIN female to type N male right angle 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 7/16 DIN to type N cable assembly has a female to male gender configuration with 50 ohm corrugated SPP-250-LLPL coax. The PE3C6244 7/16 DIN female 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. The right angle type N interface on the SPP-250-LLPL cable allows for easier connections in tight spaces. 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 7/16 DIN Female to N Male Right Angle Low PIM Cable Using SPP-250-LLPL Coax Using Times Microwave Parts PE3C6244





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

## PE3C6244

#### **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.)	0.038	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 0.12 dB for the male connector.

#### **Mechanical Specifications**

#### Cable Assembly

Maximum Units	Maximum	Typical	Minimum	Description
in [mm]		0.28 [7.11]		Jacket Diameter
in			1.25	One Time Minimum Bend Radius
lbs-ft		0.8		Bending Moment
		0.0		

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

## PE3C6244

**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
Туре	7/16 DIN Female	N Male Right Angle
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Phosphor Bronze, Silver	Phosphor Bronze, Silver
Contact Plating Specification	196 µin	196 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	118 µin
Coupling Nut Material and Plating		Brass, Tri-Metal
Coupling Nut Plating Specification		118 µin
Torque	22.127 ft-lbs 30 Nm	10 in-lbs 1.13 Nm

Mechanical Specification Notes:

## **Environmental Specifications**

Description	Specification	
Temperature Operating Range	-55 to +200 deg C	
Temperature Storage Range	-55 to +200 deg C	
Plenum Rating	UL910	
-		

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# **RF Cable Assemblies Technical Data Sheet PE3C6244** 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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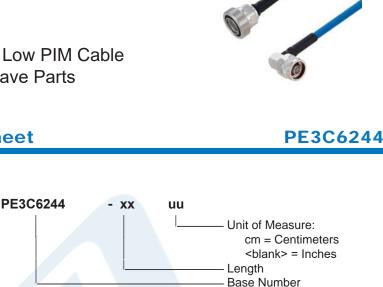


How to Order

Plenum 7/16 DIN Female to N Male Right Angle Low PIM Cable Using SPP-250-LLPL Coax Using Times Microwave Parts

# **RF Cable Assemblies Technical Data Sheet**

Part Number Configuration:



Example: PE3C6244-12 = 12 inches long cable PE3C6244-100cm = 100 cm long cable

Plenum 7/16 DIN Female to N Male Right Angle Low PIM Cable 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 7/16 DIN Female to N Male Right Angle Low PIM Cable Using SPP-250-LLPL Coax Using Times Microwave Parts PE3C6244

URL: https://www.pasternack.com/7-16-din-female-n-male-spp250llpl-cable-assembly-pe3c6244-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.

## PE3C6244 CAD Drawing Plenum 7/16 DIN Female to N Male Right Angle Low PIM Cable

Using SPP-250-LLPL Coax Using Times Microwave Parts

