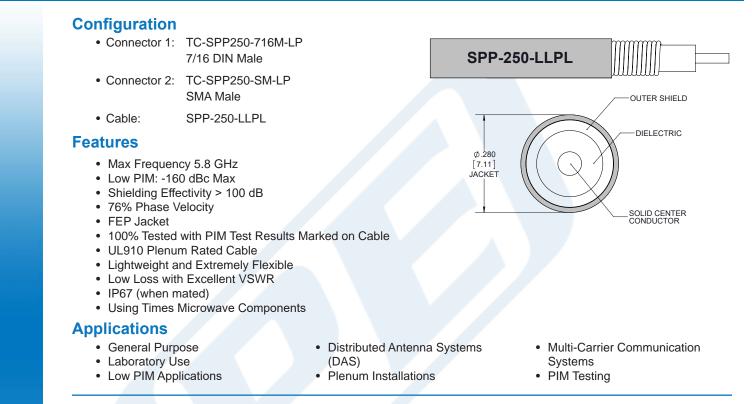




PE3C6194-48

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



#### Description

Pasternack's PE3C6194-487/16 DIN male to SMAmale 48 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 7/16 DIN to SMA cable assembly has a male to male gender configuration with 50 ohm corrugated SPP-250-LLPL coax. The PE3C6194-48 7/16 DIN male to SMA 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: Plenum 7/16 DIN Male to SMA Male Low PIM Cable 48 Inch Length Using SPP-250-LLPL Coax Using Times Microwave Parts PE3C6194-48

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.)	0.38	0.44	0.48	0.69	1	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 7/16 DIN male connector and 0.15 dB for the SMA male connector.

#### **Mechanical Specifications**

#### Cable Assembly

Description	Minimum	Typical	Maximum	Units
Length		48.0 [121.9]		in [cm]
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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**Cable Characteristics** 

Specification		
SPP-250-LLPL		
50 Ohms		
Solid		
Copper		
PTFE		
1		
Helically Corrugated Copper Tube		
Copper		
0.25 in [6.35 mm]		
FEP, Blue		
	SPP-250-LLPL 50 Ohms Solid Copper PTFE 1 Helically Corrugated Copper Tube Copper 0.25 in [6.35 mm]	

#### **Connector Characteristics**

Description	Connector 1	Connector 2
Гуре	7/16 DIN Male	SMA Male
mpedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Silver	Brass, Silver
Contact Plating Specification	200µ in	196µ in
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
ody Plating Specification	80 µin	118µ in
Coupling Nut Material and Plating	Brass, Nickel	Brass, Tri-Metal
Coupling Nut Plating Specification	80 µin	118µ in
orque	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** PE3C6194-48 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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PE3C6194-48

Plenum 7/16 DIN Male to SMA Male Low PIM Cable 48 Inch Length Using SPP-250-LLPL Coax Using Times Microwave Parts

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

## How to Order Part Number Configuration: PE3C6194 - XX uu Unit of Measure: cm = Centimeters <blank> = Inches Length Base Number Example: PE3C6194-12 = 12 inches long cable PE3C6194-100cm = 100 cm long cable Plenum 7/16 DIN Male to SMA Male Low PIM Cable 48 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 7/16 DIN Male to SMA Male Low PIM Cable 48 Inch Length Using SPP-250-LLPL Coax Using Times Microwave Parts PE3C6194-48 URL: https://www.pasternack.com/7-16-din-male-sma-male-spp250llpl-cable-assembly-pe3c6194-48-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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PE3C6194-48 CAD Drawing Plenum 7/16 DIN Male to SMA Male Low PIM Cable 48 Inch Length Using SPP-250-LLPL Coax Using Times Microwave Parts

