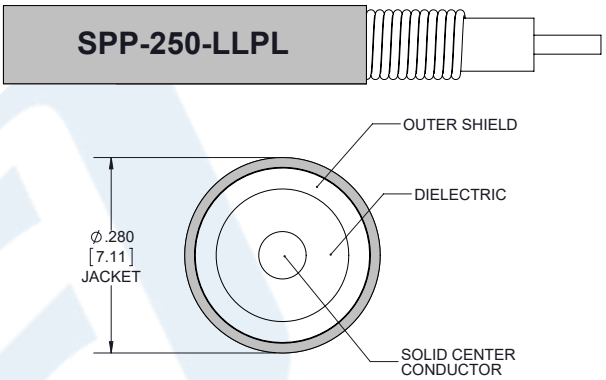
PASTERNACK
an INFINITE brand

Plenum 7/16 DIN Male Right Angle to N Male Right Angle Low PIM Cable 50 cm Length Using SPP-250-LLPL Coax Using Times Microwave Parts

Configuration

- Connector 1: TC-SPP250-716M-RA-LP
  7/16 DIN Male Right Angle
- Connector 2: TC-SPP250-NM-RA-LP
  N Male Right Angle
- Cable: SPP-250-LLPL



Features

- Max Frequency 5.8 GHz
- Low PIM: -160 dBc Max
- Shielding Effectivity > 100 dB
- 76% Phase Velocity
- FEP Jacket
- 100% Tested with PIM Test Results Marked on Cable
- UL910 Plenum Rated Cable
- Lightweight and Extremely Flexible
- Low Loss with Excellent VSWR
- IP67 (when mated)
- Using Times Microwave Components

Applications

- General Purpose
- Laboratory Use
- Low PIM Applications
- Distributed Antenna Systems (DAS)
- Plenum Installations
- Multi-Carrier Communication Systems
- PIM Testing

Description

Pasternack's PE3C6199-50CM 7/16 DIN male right angle to type N male right angle 50 cm 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 male to male gender configuration with 50 ohm corrugated SPP-250-LLPL coax. The PE3C6199-50CM 7/16 DIN 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. The right angle 7/16 DIN and right angle type N interfaces on the SPP-250-LLPL cable allow 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 Male Right Angle to N Male Right Angle Low PIM Cable 50 cm Length Using SPP-250-LLPL Coax Using Times Microwave Parts PE3C6199-50CM

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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RF Cable Assemblies Technical Data Sheet PE3C6199-50CM

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.)	0.29	0.3	0.32	0.38	0.47	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 dB for the 7/16 DIN male connector and 0.12 for the N male connector.

Mechanical Specifications

Cable Assembly

Description	Minimum	Typical	Maximum	Units
Length		19.7 [500.0]		in [mm]
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

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
Type	7/16 DIN Male Right Angle	N Male Right Angle
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Silver	Phosphor Bronze, Silver
Contact Plating Specification	196µ in	196µ in
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Tri-Metal
Body Plating Specification	118µ in	118µ in
Coupling Nut Material and Plating	Brass, Nickel	Brass, Tri-Metal
Coupling Nut Plating Specification	118µ in	118µ in
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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Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

Typical Performance Data

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 Right Angle to N Male Right Angle Low PIM Cable 50 cm Length Using SPP-250-LLPL Coax Using Times Microwave Parts PE3C6199-50CM

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RF Cable Assemblies Technical Data Sheet PE3C6199-50CM

How to Order

Part Number Configuration: **PE3C6199 - xx uu**

- uu — Unit of Measure: cm = Centimeters, <blank> = Inches
- xx — Length
- PE3C6199 — Base Number

Example: PE3C6199-12 = 12 inches long cable
PE3C6199-100cm = 100 cm long cable

Plenum 7/16 DIN Male Right Angle to N Male Right Angle Low PIM Cable 50 cm 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.

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URL: https://www.pasternack.com/7-16-din-male-n-male-spp250llpl-cable-assembly-pe3c6199-50cm-p.aspx

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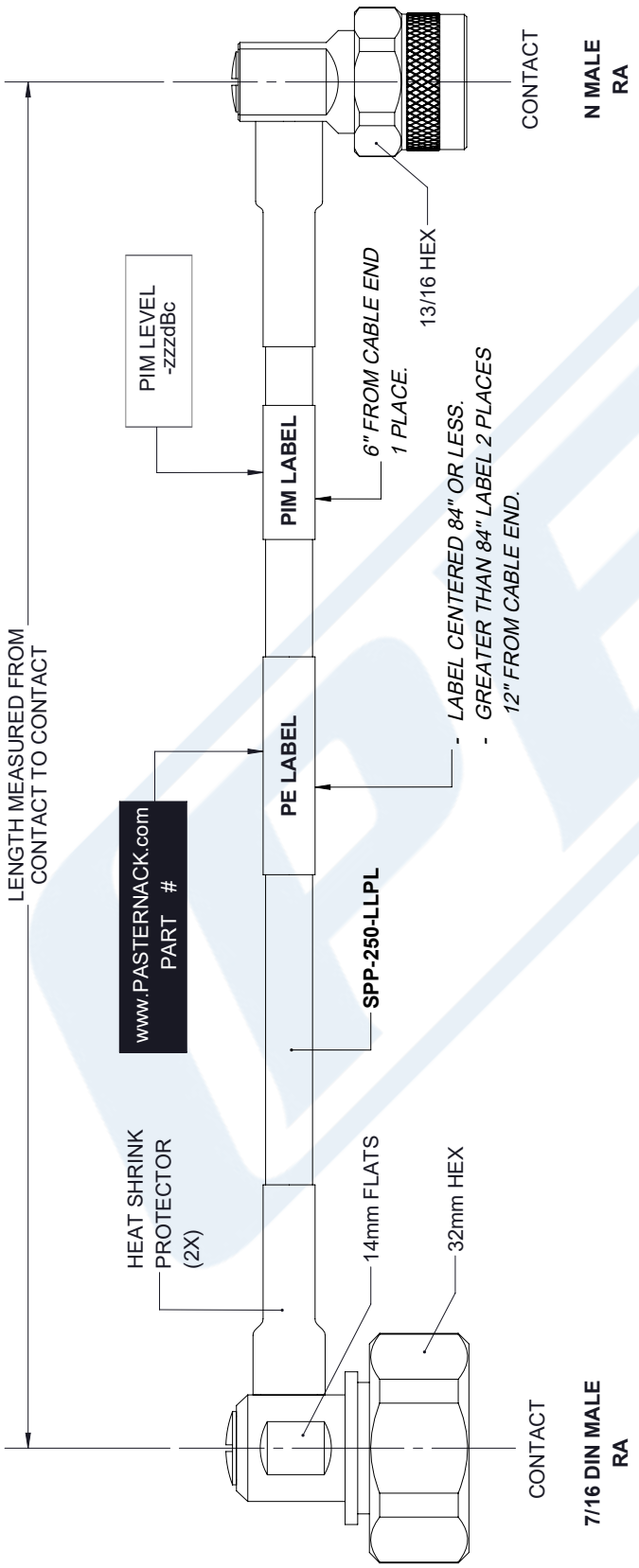
PE3C6199-50CM CAD Drawing

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



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	04/09/19	S.ELLIS

UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS
TOLERANCES:
X± .2 [5.08] | FRACTIONS
XX± .01 [.25] | ± 1/32
XXX± .005 [.13] | ANGLES ± 1°
ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.
THIRD-ANGLE PROJECTION

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SIZE	CAGE	DRAWN BY	PART NUMBER	REV
A	53919	K.DANG	PE3C6199	A

SHEET 1 OF 1
SCALE N/A

T-Rev.B