



RF Cable Assemblies Technical Data Sheet

PE3C4138-50CM

Configuration

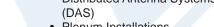
• Connector 1: N Female · Connector 2: N Male Cable Type: SPP-250-LLPL

Features

- Max Frequency 6 GHz
- Low PIM: -160 dBc Max
- Shielding Effectivity > 100 dB
- 76% Phase Velocity
- FEP Jacket
- PIM < -160 dBc
- 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)

Applications

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



Description

Pasternack's low PIM plenum cable assemblies using SPP-250-LLPL coax and N female to N male connections are part of our full line of RF components available for same-day shipping. These N female to N male plenum coax cable assemblies deliver low PIM performance to support Distributed Antenna Systems (DAS) and other complex, multi-carrier communication systems. The SPP-250-LLPL coax cable has been certified in accordance with UL910 for plenum coaxial cable installations. Each N female to N male cable assembly is 100% tested for Passive Intermodulation (PIM) and the tested value is marked directly on the cable.

Our N female to N male cable datasheet specifications and drawing with dimensions are shown below in this PDF. Whether the need is to provide a low PIM jumper connection, low PIM test cable or simply create a custom cable assembly configuration, Pasternack has the right cable assemblies for the job.

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 to N Male Low PIM Cable 50 CM Length Using SPP-250-LLPL Coax, LF Solder PE3C4138-50CM

SPP-250-LLPL OUTER SHIFLD DIELECTRIC Ø 280 [7.11] JACKET SOLID CENTER CONDUCTOR

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		6	GHz
VSWR			1.35:1	
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]
Operating Voltage (AC)			750	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2	4	6	GHz
Insertion Loss (Max.)	0.47	0.49	0.54	0.6	0.65	dB
VSWR (Max.)	1.25:1	1.25:1	1.25:1	1.35:1	1.35:1	

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 0.4dB of connector loss.

Mechanical Specifications

Cable Assembly

Length* 19.69 in [500.13 mm]
Diameter 0.28 in [7.11 mm]

Cable

Cable TypeSPP-250-LLPLImpedance50 OhmsInner Conductor TypeSolidInner Conductor Material and PlatingCopper, BareDielectric TypePTFE

Number of Shields 1
Shield Layer 1 Helically Corrugated Copper Tube

Outer Conductor Diameter 0.25 in [6.35 mm]

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Jacket Material FEP

Jacket Diameter 0.28 in [7.11 mm]

One Time Minimum Bend Radius 1.5 in [38.1 mm]

Connectors

Connector 1	Connector 2 N Male	
N Female		
50 Ohms	50 Ohms	
Beryllium Copper, Silver	Brass, Silver	
PTFE	PTFE	
Brass, Tri-Metal	Brass, Tri-Metal	
Silicone Rubber	Silicone Rubber	
	N Female 50 Ohms Beryllium Copper, Silver PTFE Brass, Tri-Metal	

Mechanical Specification Notes:

Environmental Specifications

Temperature

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

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

• Values at 25°C, sea level.

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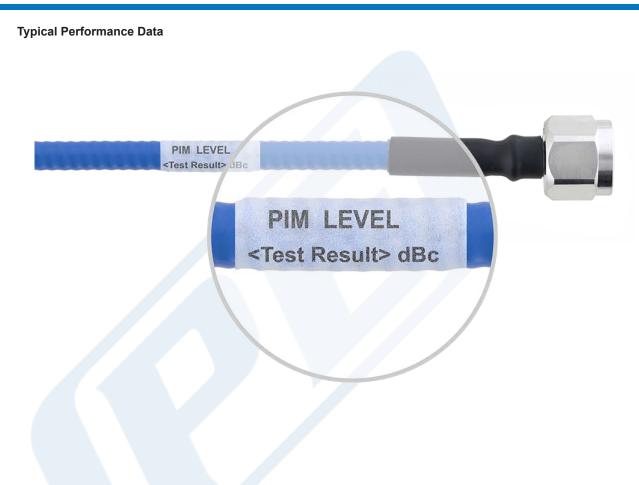
^{*}All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.





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How to Order



Example: PE3C4138-12 = 12 inches long cable PE3C4138-100cm = 100 cm long cable

Plenum N Female to N Male Low PIM Cable 50 CM Length Using SPP-250-LLPL Coax, LF Solder 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/n-female-n-male-spp250llpl-cable-assembly-pe3c4138-50cm-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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PE3C4138-50CM CAD DrawingPlenum N Female to N Male Low PIM Cable 50 CM Length Using SPP-250-LLPL Coax, LF Solder

