

## NEX10 Female to NEX10 Female Bulkhead Low PIM Cable Using SPP-250-LLPL Coax



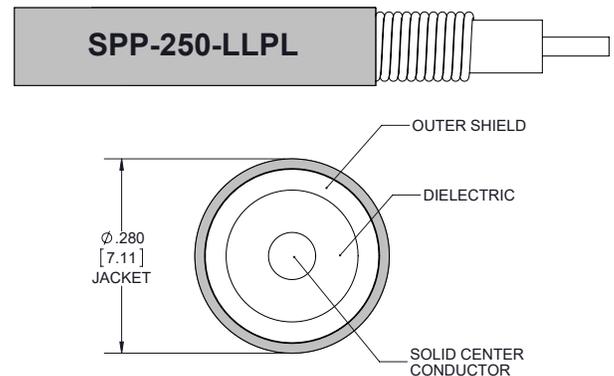
### PE3W17880

#### Configuration

- Connector 1: NEX10 Female
- Connector 2: NEX10 Female Bulkhead
- Cable Type: SPP-250-LLPL
- Coax Flex Type: Corrugated

#### Features

- Max Frequency 5.8 GHz
- Low PIM: -160 dBc Max
- Shielding Effectivity > 100 dB
- 76% Phase Velocity
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use
- Low PIM Applications

#### Description

Pasternack's PE3W17880 NEX10 female to NEX10 female bulkhead 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 NEX10 to NEX10 cable assembly has a female to female gender configuration with 50 ohm corrugated SPP-250-LLPL coax. The PE3W17880 NEX10 female to NEX10 female 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 NEX10 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.

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.

#### 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			-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]		Ohms/1000ft [Ohms/Km]

#### Specifications by Frequency

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**PE3W17880**

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		450	500	1000	2500	
PE3W17880	Custom Lengths Available	Insertion Loss (Typ.)	0.04	0.04	0.054	0.093	0.148	dB/ft	
			0.13	0.13	0.18	0.31	0.49	dB/m	
PE3W17880-12	12 inch	Insertion Loss (Typ.)	0.24	0.24	0.26	0.3	0.35	dB	0.11
PE3W17880-24	24 inch	Insertion Loss (Typ.)	0.28	0.28	0.31	0.39	0.5	dB	0.181
PE3W17880-36	36 inch	Insertion Loss (Typ.)	0.32	0.32	0.37	0.48	0.65	dB	0.251
PE3W17880-60	60 inch	Insertion Loss (Typ.)	0.39	0.4	0.47	0.67	0.94	dB	0.391
PE3W17880-50CM	50 CM	Insertion Loss (Typ.)	0.27	0.27	0.29	0.36	0.45	dB	0.155

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1:	0.1 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.11 pounds
Additional Weight per Inch:	0.00584 pounds

**Mechanical Specifications**

**Cable Assembly**

Width/Diameter	0.5 in [12.7 mm]
Weight	0.11 lbs [49.9 g]

**Cable**

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
Outer Conductor 1 Material and Plating	Copper
Jacket Material	FEP, Blue
Jacket Diameter	0.28 in [7.11 mm]
One Time Minimum Bend Radius	1.25 in [31.75 mm]
Bending Moment	0.8 lbs-ft [1.08 N-m]

**Connectors**

Description	Connector 1	Connector 2
Type	NEX10 Female	NEX10 Female Bulkhead
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Bronze, Silver	Bronze, Silver
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal

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#### Environmental Specifications

Operating Range Temperature -40 to +155 deg C

**Compliance Certifications** (see [product page](#) for current document)

#### Plotted and Other Data

Notes:

#### Typical Performance Data

#### How to Order

Part Number Configuration: **PE3W17880 - xx uu**

PE3W17880: Base Number  
 - xx: Length  
 uu: Unit of Measure:  
     cm = Centimeters  
     <blank> = Inches

Example: PE3W17880-12 = 12 inches long cable  
 PE3W17880-100cm = 100 cm long cable

NEX10 Female to NEX10 Female Bulkhead Low PIM Cable Using SPP-250-LLPL Coax 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: [NEX10 Female to NEX10 Female Bulkhead Low PIM Cable Using SPP-250-LLPL Coax PE3W17880](#)

URL: <https://www.pasternack.com/nex10-female-to-nex10-female-bulkhead-low-pim-cable-using-spp-250-llpl-pe3w17880-p.aspx>

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# PE3W17880 CAD Drawing

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