

NEX10 Male Right Angle to NEX10 Female Bulkhead Low PIM Cable Using SPP-250-LLPL Coax

PE3W17878



Configuration

- Connector 1: NEX10 Male Right Angle
- 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 PE3W17878 NEX10 male right angle 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 male to female gender configuration with 50 ohm corrugated SPP-250-LLPL coax. The PE3W17878 NEX10 male 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. The right angle NEX10 interface on the SPP-250-LLPL cable allows for easier connections in tight spaces. 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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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	450	500	1000	2500	5800	MHz	
PE3W17878	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	
PE3W17878-12	12 inch	Insertion Loss (Typ.)	0.34	0.34	0.36	0.4	0.45	dB	0.12
PE3W17878-24	24 inch	Insertion Loss (Typ.)	0.38	0.38	0.41	0.49	0.6	dB	0.191
PE3W17878-36	36 inch	Insertion Loss (Typ.)	0.42	0.42	0.47	0.58	0.75	dB	0.261
PE3W17878-60	60 inch	Insertion Loss (Typ.)	0.49	0.5	0.57	0.77	1.04	dB	0.401
PE3W17878-50CM	50 CM	Insertion Loss (Typ.)	0.37	0.37	0.39	0.46	0.55	dB	0.165

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:	0.2 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.12 pounds
Additional Weight per Inch:	0.00584 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.12 lbs [54.43 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]

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Connectors

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

Environmental Specifications

Operating Range Temperature -40 to +155 deg C

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

Plotted and Other Data

Notes:

NEX10 Male Right Angle to NEX10 Female Bulkhead Low PIM Cable Using SPP-250-LLPL Coax



PE3W17878

Typical Performance Data

How to Order

Part Number Configuration: **PE3W17878 - xx uu**

Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number

Example: PE3W17878-12 = 12 inches long cable
PE3W17878-100cm = 100 cm long cable

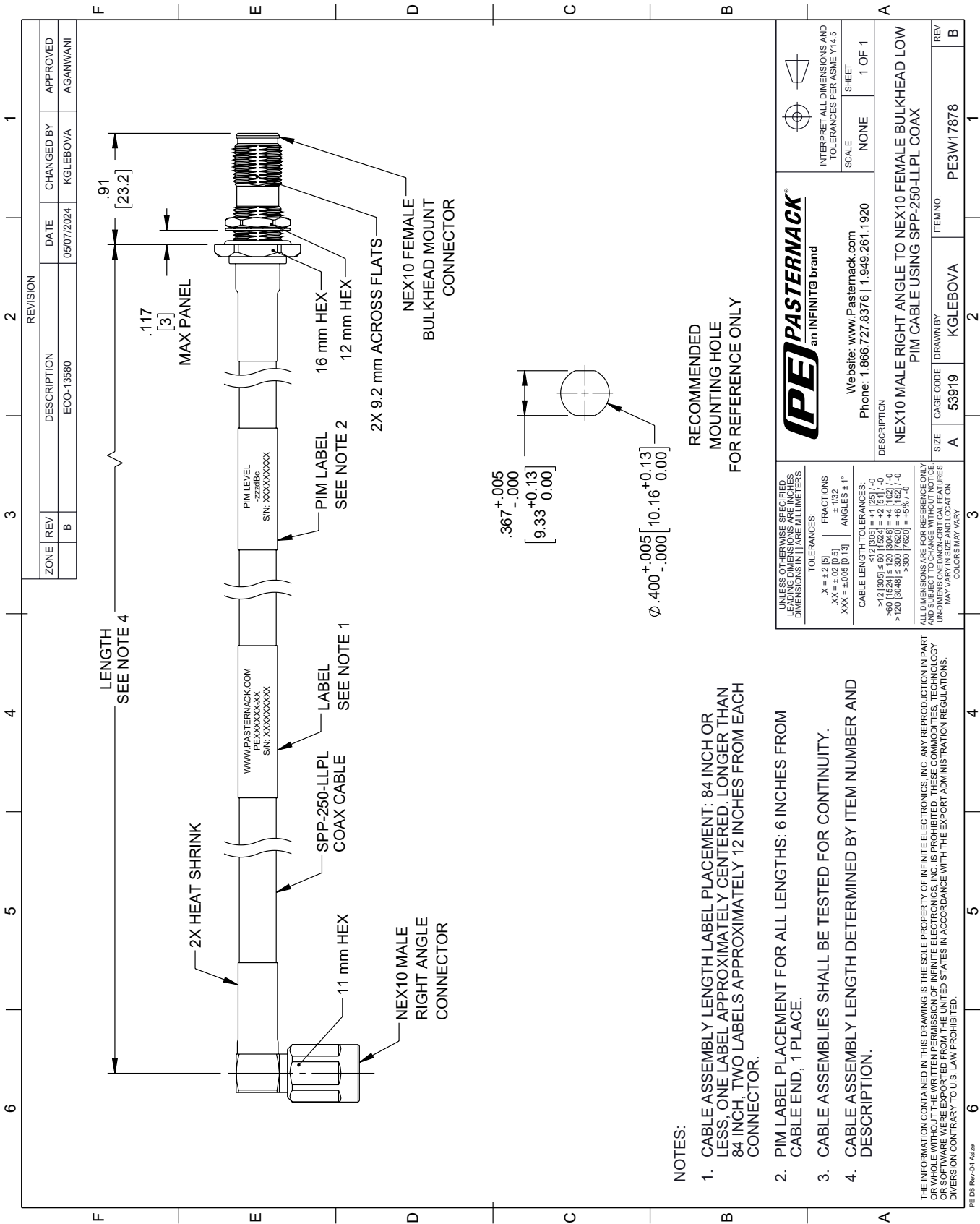
NEX10 Male Right Angle to NEX10 Female Bulkhead Low PIM Cable Using SPP-250-LLPL Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [NEX10 Male Right Angle to NEX10 Female Bulkhead Low PIM Cable Using SPP-250-LLPL Coax PE3W17878](https://www.pasternack.com/nex10-male-right-angle-to-nex10-female-bulkhead-low-pim-cable-using-spp-250-llpl-pe3w17878-p.aspx)

URL: <https://www.pasternack.com/nex10-male-right-angle-to-nex10-female-bulkhead-low-pim-cable-using-spp-250-llpl-pe3w17878-p.aspx>

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PE3W17878 CAD Drawing
NEX10 Male Right Angle to NEX10 Female Bulkhead Low PIM Cable Using SPP-250-LLPL Coax



RECOMMENDED MOUNTING HOLE FOR REFERENCE ONLY

- 1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 84 INCH OR LESS, ONE LABEL APPROXIMATELY CENTERED, LONGER THAN 84 INCH, TWO LABELS APPROXIMATELY 12 INCHES FROM EACH CONNECTOR.
- 2. PIM LABEL PLACEMENT FOR ALL LENGTHS: 6 INCHES FROM CABLE END, 1 PLACE.
- 3. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
- 4. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM NUMBER AND DESCRIPTION.

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, DIMENSIONS IN [] ARE IN MILLIMETERS		PE PASTERNAK an INFINITI® brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
TOLERANCES:		Website: www.pasternack.com		SCALE: NONE	
X = ±.015		Phone: 1.866.727.8376 1.949.261.1920		SHEET: 1 OF 1	
XX = ±.02 [0.5]		DESCRIPTION		NEX10 MALE RIGHT ANGLE TO NEX10 FEMALE BULKHEAD LOW PIM CABLE USING SPP-250-LLPL COAX	
XXX = ±.005 [0.13]		CABLE LENGTH TOLERANCES:		SIZE: A	
ANGLES ± 1°		>12 [305] ≤ 60 [1524] = ±.125 [-0]		CAGE CODE: 53919	
		>60 [1524] ≤ 120 [3048] = ±.125 [-0]		DRAWN BY: KGLEBOVA	
		>120 [3048] ≤ 300 [7620] = ±.125 [-0]		ITEM NO: PE3W17878	
		>300 [7620] ≤ 450 [11430] = ±.125 [-0]		REV: B	
ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.					

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PE DS Rev-D4 Adda