

NEX10 Male Right Angle to NEX10 Female Low PIM Cable Using SPF-250 Coax

PE3W17859

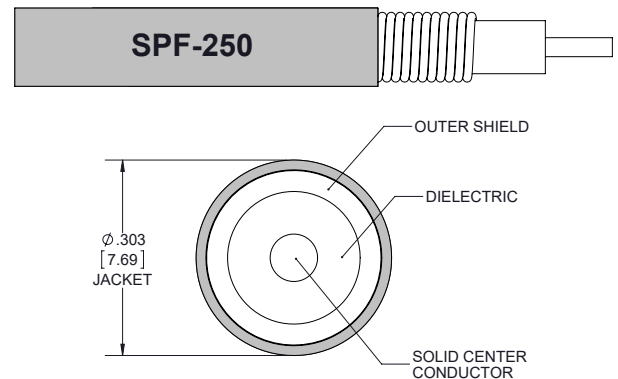


Configuration

- Connector 1: NEX10 Male Right Angle
- Connector 2: NEX10 Female
- Cable Type: SPF-250
- Coax Flex Type: Corrugated

Features

- Max Frequency 5.8 GHz
- Low PIM: -160 dBc Max
- 83% Phase Velocity
- FRPE Jacket



Applications

- General Purpose
- Laboratory Use
- Low PIM Applications

Description

Pasternack's PE3W17859 NEX10 male right angle to NEX10 female cable using SPF-250 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 SPF-250 coax. The PE3W17859 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 SPF-250 cable allows for easier connections in tight spaces.

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		83		%
Passive Intermodulation			-160	dBc
Capacitance		24 [78.74]		pF/ft [pF/m]
Inductance		0.054 [0.18]		uH/ft [uH/m]

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	
PE3W17859	Custom Lengths Available	Insertion Loss (Typ.)	0.04	0.04	0.06	0.103	0.167	dB/ft	
			0.14	0.14	0.2	0.34	0.55	dB/m	
PE3W17859-12	12 inch	Insertion Loss (Typ.)	0.35	0.35	0.36	0.41	0.47	dB	0.102
PE3W17859-24	24 inch	Insertion Loss (Typ.)	0.39	0.39	0.42	0.51	0.64	dB	0.155
PE3W17859-36	36 inch	Insertion Loss (Typ.)	0.43	0.43	0.48	0.61	0.8	dB	0.207
PE3W17859-60	60 inch	Insertion Loss (Typ.)	0.51	0.51	0.6	0.82	1.14	dB	0.311
PE3W17859-50CM	50 CM	Insertion Loss (Typ.)	0.37	0.37	0.4	0.47	0.58	dB	0.136

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:	0.102 pounds
Additional Weight per Inch:	0.00434 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.102 lbs [46.27 g]

Cable

Cable Type	SPF-250
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Aluminum
Dielectric Type	Foam PE
Number of Shields	1
Outer Conductor 1 Material and Plating	Copper
Jacket Material	FRPE, Black
Jacket Diameter	0.303 in [7.7 mm]
One Time Minimum Bend Radius	1.25 in [31.75 mm]
Bending Moment	0.5 lbs-ft [0.68 N-m]

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Connectors

Description	Connector 1	Connector 2
Type	NEX10 Male Right Angle	NEX10 Female
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 +85 deg C

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

Plotted and Other Data

Notes:

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PE3W17859

Typical Performance Data

How to Order

Part Number Configuration:

PE3W17859

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

Length

Base Number

Example: PE3W17859-12 = 12 inches long cable
PE3W17859-100cm = 100 cm long cable

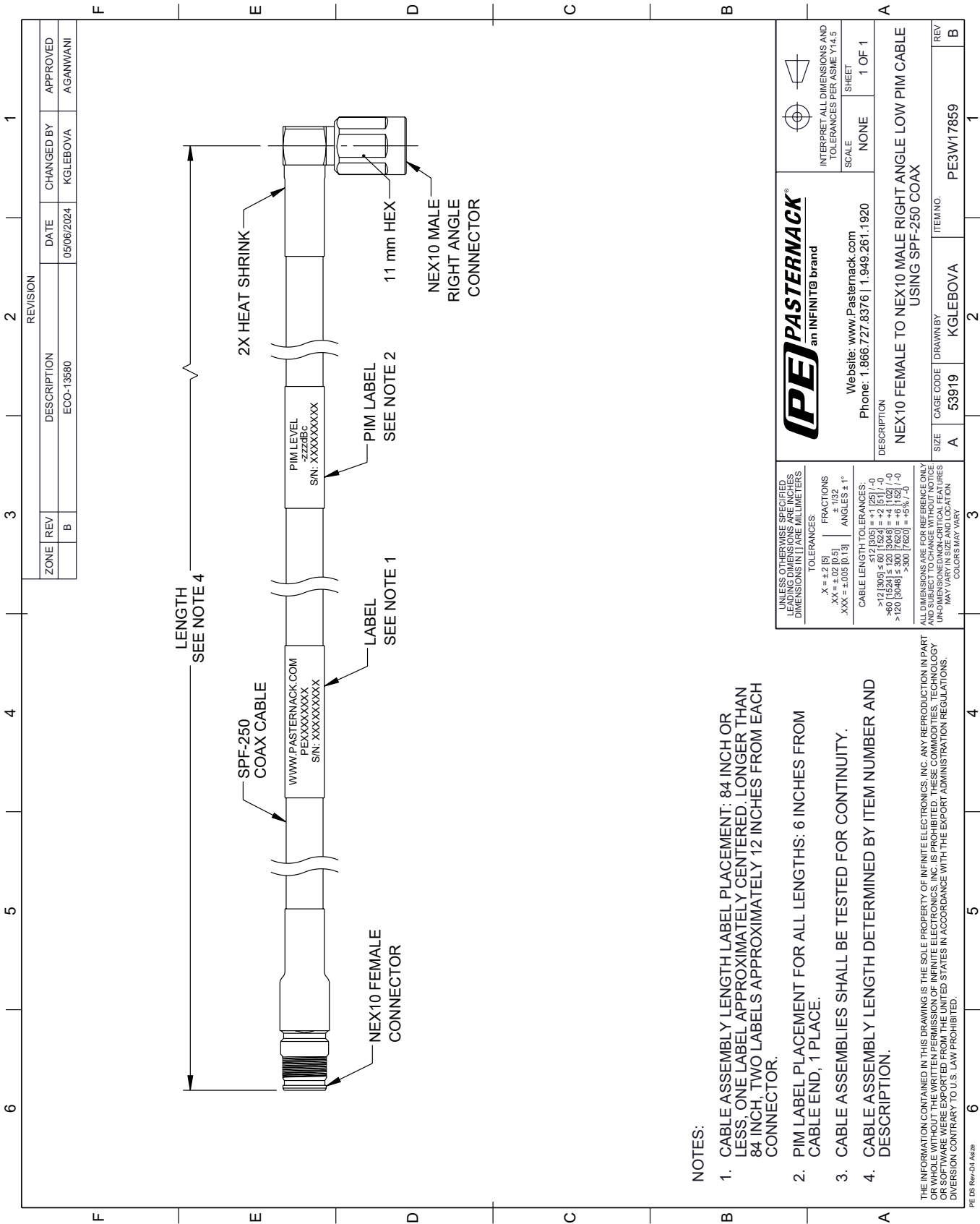
NEX10 Male Right Angle to NEX10 Female Low PIM Cable Using SPF-250 Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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 Low PIM Cable Using SPF-250 Coax PE3W17859](#)

URL: <https://www.pasternack.com/nex10-male-right-angle-to-nex10-female-low-pim-cable-using-spf-250-pe3w17859-p.aspx>

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PE3W17859 CAD Drawing
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- 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.

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