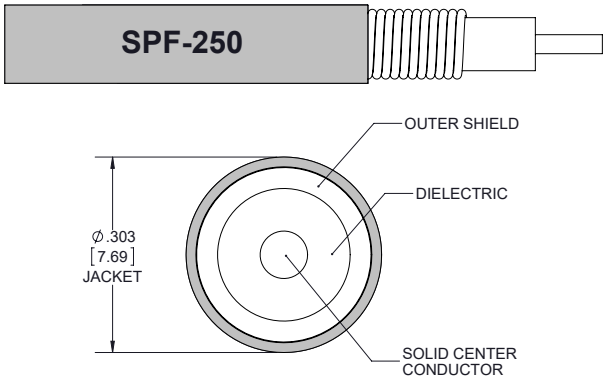
NEX10 Male Right Angle to NEX10 Male Right Angle Low PIM Cable Using SPF-250 Coax

PE3W17858

Configuration

- Connector 1: NEX10 Male Right Angle
- Connector 2: NEX10 Male Right Angle
- 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 PE3W17858 NEX10 male right angle to NEX10 male right angle 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 male gender configuration with 50 ohm corrugated SPF-250 coax. The PE3W17858 NEX10 male to NEX10 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 NEX10 interfaces on the SPF-250 cable allow 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	
PE3W17858	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	
PE3W17858-12	12 inch	Insertion Loss (Typ.)	0.45	0.45	0.46	0.51	0.57	dB	0.112
PE3W17858-24	24 inch	Insertion Loss (Typ.)	0.49	0.49	0.52	0.61	0.74	dB	0.165
PE3W17858-36	36 inch	Insertion Loss (Typ.)	0.53	0.53	0.58	0.71	0.9	dB	0.217
PE3W17858-60	60 inch	Insertion Loss (Typ.)	0.61	0.61	0.7	0.92	1.24	dB	0.321
PE3W17858-50CM	50 CM	Insertion Loss (Typ.)	0.47	0.47	0.5	0.57	0.68	dB	0.146

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:	0.2	dB
Base Weight:	0.112	pounds
Additional Weight per Inch:	0.00434	pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.112 lbs [50.8 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]

Connectors

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

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Environmental Specifications

Operating Range Temperature	-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data

How to Order

Part Number Configuration:

PE3W17858 - xx uu

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3W17858 — Base Number

Example: PE3W17858-12 = 12 inches long cable
PE3W17858-100cm = 100 cm long cable

NEX10 Male Right Angle to NEX10 Male Right Angle 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 Male Right Angle Low PIM Cable Using SPF-250 Coax PE3W17858

URL: https://www.pasternack.com/nex10-male-right-angle-to-nex10-male-low-pim-cable-using-spf-250-pe3w17858-p.aspx

PE3W17858 CAD Drawing

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