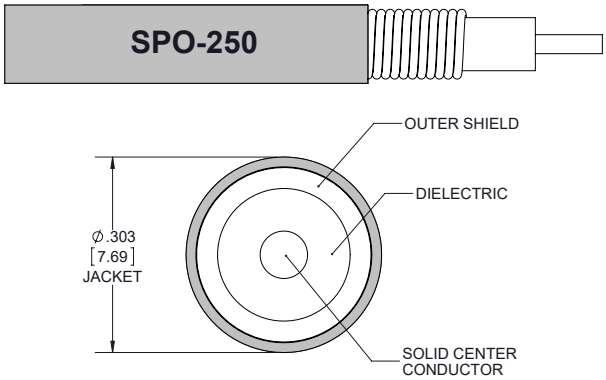
# NEX10 Male Right Angle to NEX10 Male Right Angle Low PIM Cable Using SPO-250 Coax

## PE3W17868

### Configuration

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




### Features

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

### Applications

- General Purpose
- Laboratory Use
- Low PIM Applications

### Description

Pasternack's PE3W17868 NEX10 male right angle to NEX10 male right angle cable using SPO-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 SPO-250 coax. The PE3W17868 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 SPO-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



+1 (866) 558-2786 | sales@pasternack.com | pasternack.com

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

## PE3W17868

| Part Number | Length | Description | F1 | F2 | F3 | F4 | F5 | Units | Weight (lbs) |
|---|---|---|---|---|---|---|---|---|---|
| | | Frequency | 450 | 500 | 1000 | 2500 | 5800 | MHz | |
| PE3W17868 | 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 | |
| PE3W17868-12 | 12 inch | Insertion Loss (Typ.) | 0.45 | 0.45 | 0.46 | 0.51 | 0.57 | dB | 0.107 |
| PE3W17868-24 | 24 inch | Insertion Loss (Typ.) | 0.49 | 0.49 | 0.52 | 0.61 | 0.74 | dB | 0.155 |
| PE3W17868-36 | 36 inch | Insertion Loss (Typ.) | 0.53 | 0.53 | 0.58 | 0.71 | 0.9 | dB | 0.202 |
| PE3W17868-60 | 60 inch | Insertion Loss (Typ.) | 0.61 | 0.61 | 0.7 | 0.92 | 1.24 | dB | 0.296 |
| PE3W17868-50CM | 50 CM | Insertion Loss (Typ.) | 0.47 | 0.47 | 0.5 | 0.57 | 0.68 | dB | 0.138 |

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: | 0.107 | pounds |
| Additional Weight per Inch: | 0.00392 | pounds |

## Mechanical Specifications

### Cable Assembly

| | |
|---|---|
| Width/Diameter | 0.5 in [12.7 mm] |
| Weight | 0.107 lbs [48.53 g] |

### Cable

| | |
|---|---|
| Cable Type | SPO-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 | PE, 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 |

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

## PE3W17868

### 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: **PE3W17868 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3W17868 — Base Number

Example: PE3W17868-12 = 12 inches long cable
PE3W17868-100cm = 100 cm long cable

NEX10 Male Right Angle to NEX10 Male Right Angle Low PIM Cable Using SPO-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 SPO-250 Coax PE3W17868

URL: https://www.pasternack.com/nex10-male-right-angle-to-nex10-male-low-pim-cable-using-spo-250-pe3w17868-p.aspx

# PE3W17868 CAD Drawing

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