

## Plenum 4.3-10 Male to QMA Male Low PIM Cable Using SPP-250-LLPL Coax, LF Solder

### PE3C5865



#### Configuration

- Connector 1: 4.3-10 Male
- Connector 2: QMA Male
- Cable Type: SPP-250-LLPL
- Coax Flex Type: Corrugated

#### Features

- Max Frequency 5.8 GHz
- Low PIM: -150 dBc Max
- Shielding Effectivity > 100 dB
- 76% Phase Velocity
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use
- Low PIM Applications

#### Description

Pasternack's PE3C5865 4.3-10 male to QMA male 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 4.3-10 to QMA cable assembly has a male to male gender configuration with 50 ohm corrugated SPP-250-LLPL coax. The PE3C5865 4.3-10 male to QMA male cable assembly operates to 5.8 GHz. Our low PIM design also offers excellent passive intermodulation performance with PIM levels better than -150 dBc.

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<br>IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz |         |              | -150    | dBc          |
| Capacitance   |         | 27 [88.58]   |         | pF/ft [pF/m] |
| Inductance  |         | 0.067 [0.22] |         | uH/ft [uH/m] |

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#### Electrical Specifications

| Description                   | Minimum | Typical  | Maximum | Units                 |
|-------------------------------|---------|----------|---------|-----------------------|
| DC Resistance Inner Conductor |         | 3 [9.84] |         | Ohms/1000ft [Ohms/Km] |

#### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 0.25 | 0.5  | 1    | 2.5  | 5.8  | GHz   |
| Insertion Loss (Max.) | 0.04 | 0.06 | 0.08 | 0.12 | 0.15 | dB/ft |
|                       | 0.13 | 0.2  | 0.26 | 0.39 | 0.49 | dB/m  |

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as  $0.04 \cdot \sqrt{\text{FGHz}}$  dB per connector.

#### Mechanical Specifications

##### Cable Assembly

|                |                    |
|----------------|--------------------|
| Width/Diameter | 0.5 in [12.7 mm]   |
| Weight         | 0.18 lbs [81.65 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                                 | 4.3-10 Male      | QMA Male                   |
| Impedance                            | 50 Ohms          | 50 Ohms                    |
| Configuration                        | Straight         | Straight                   |
| Contact Material and Plating         | Brass, Silver    | Brass, Silver              |
| Dielectric Type                      | PTFE             | PTFE                       |
| Outer Conductor Material and Plating |                  | Phosphor Bronze, Tri-Metal |
| 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

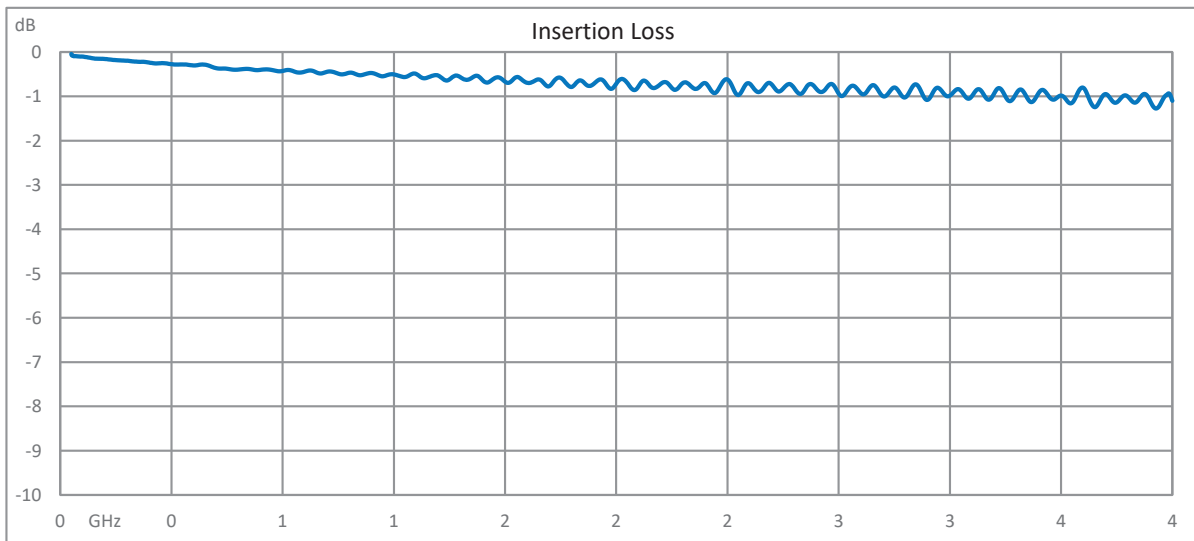
Operating Range Temperature -55 to +165 deg C

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

### Plotted and Other Data

Notes:

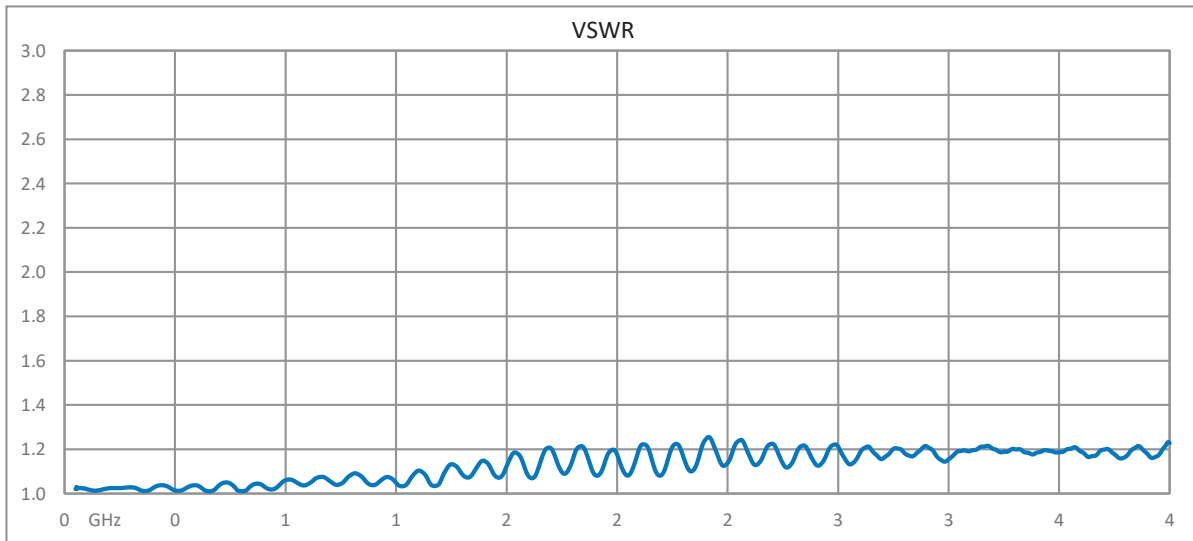
### Typical Performance Data



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### PE3C5865



### How to Order

Part Number Configuration:

**PE3C5865**

**- xx**

**uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

Example: PE3C5865-12 = 12 inches long cable  
PE3C5865-100cm = 100 cm long cable

Plenum 4.3-10 Male to QMA Male Low PIM Cable Using SPP-250-LLPL Coax, LF Solder 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: [Plenum 4.3-10 Male to QMA Male Low PIM Cable Using SPP-250-LLPL Coax, LF Solder PE3C5865](#)

URL: <https://www.pasternack.com/4.3-10-male-qma-male-spp250llpl-cable-assembly-pe3c5865-p.aspx>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3C5865 CAD Drawing

Plenum 4.3-10 Male to QMA Male Low PIM Cable Using SPP-250-LLPL Coax, LF Solder

