

4.3-10 Male to N Female Bulkhead Low PIM Cable 100 CM Length Using TFT-5G-402 Coax Using Times Microwave Components



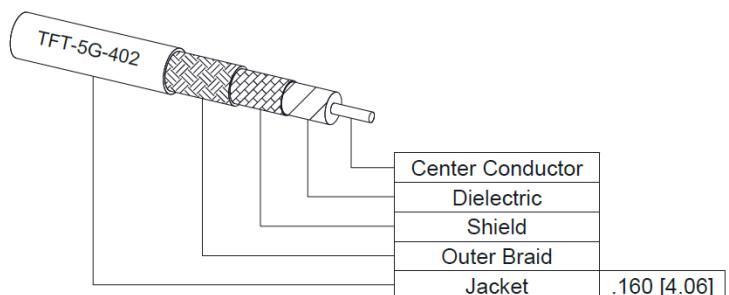
PE3C8312-100CM

Configuration

- Connector 1: 4.3-10 Male
- Connector 2: N Female Bulkhead
- Cable Type: TFT-5G-402
- Coax Flex Type: Flexible

Features

- Max Frequency 5.8 GHz
- Low PIM: -160 dBc Max
- Shielding Effectivity > 80 dB
- 76% Phase Velocity
- Double Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use
- Low PIM Applications
- Indoor and Outdoor Use
- Plenum Rated Applications

Description

Pasternack's PE3C8312-100CM 4.3-10 male to type N female bulkhead 100 cm cable using TFT-5G-402 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack 4.3-10 to type N cable assembly has a male to female gender configuration with 50 ohm flexible TFT-5G-402 coax. The PE3C8312-100CM 4.3-10 male to type N 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. Our RF cable assembly with type N 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. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 80 dB.

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 | 80 | | | dB |
| Passive Intermodulation | | | -160 | dBc |
| IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz | | | | |

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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------|---------|-------------|---------|--------------|
| Capacitance | | 26.7 [87.6] | | pF/ft [pF/m] |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency | 0.25 | 0.5 | 1 | 2.5 | 5.8 | GHz |
| Insertion Loss (Typ.) | 0.34 | 0.45 | 0.59 | 0.89 | 1.31 | dB |

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of $0.1 * \text{SQRT}(F\text{GHz})$ dB for the male connector and 0.1 dB for the female connector.

Mechanical Specifications

Cable Assembly

| | |
|----------------|-------------------|
| Length | 39.37 in [100 cm] |
| Width/Diameter | 0.866 in [22 mm] |
| Weight | lbs [0 g] |

Cable

| | |
|--------------------------------------|--------------------|
| Cable Type | TFT-5G-402 |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper |
| Dielectric Type | PTFE |
| Number of Shields | 2 |
| Jacket Material | FEP, Blue |
| Jacket Diameter | 0.16 in [4.06 mm] |
| One Time Minimum Bend Radius | 0.75 in [19.05 mm] |

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Connectors

| Description | Connector 1 | Connector 2 |
|---------------------------------------|-------------------|-------------------|
| Type | 4.3-10 Male | N Female Bulkhead |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Straight | Straight |
| Mating Cycles | 500 | |
| Contact Material and Plating | Brass, Silver | Brass, Silver |
| Contact Plating Specification | 200 μ in | 5 μ m |
| Dielectric Type | PTFE | PTFE |
| Outer Conductor Material and Plating | | Brass, Tri-Metal |
| Outer Conductor Plating Specification | | 3 μ m |
| Body Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Body Plating Specification | 80 μ in | 3 μ m |
| Coupling Nut Material and Plating | Brass, Tri-Metal | |
| Coupling Nut Plating Specification | 80 μ in | |
| Torque | 44 in-lbs 4.97 Nm | 10 in-lbs 1.13 Nm |

Environmental Specifications

Operating Range Temperature -55 to +85 deg C

Compliance Certifications

(see product page for current document)

Plotted and Other Data

Notes:

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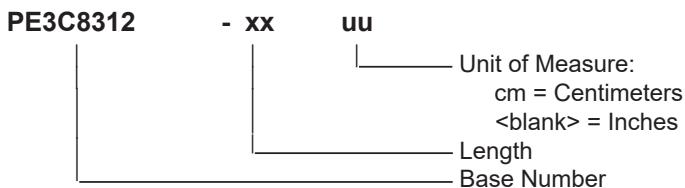


PE3C8312-100CM

Typical Performance Data

How to Order

Part Number Configuration:



Example: PE3C8312-12 = 12 inches long cable
PE3C8312-100cm = 100 cm long cable

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Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [4.3-10 Male to N Female Bulkhead Low PIM Cable 100 CM Length Using TFT-5G-402 Coax Using Times Microwave Components PE3C8312-100CM](#)

URL: <https://www.pasternack.com/4.3-10-male-to-n-female-bulkhead-low-pim-cable-100-cm-length-using-tft-5g-402-pe3c8312-100cm.html>

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PE3C8312-100CM CAD Drawing

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