

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

PE3C8318-100CM

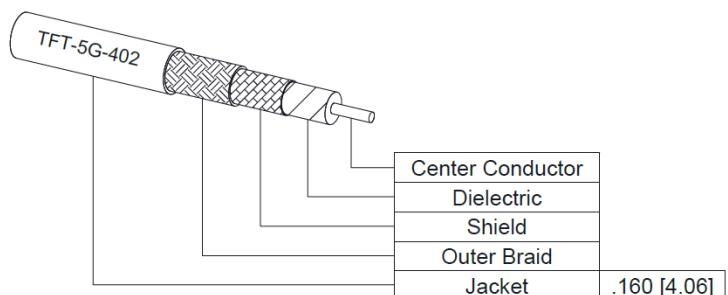


Configuration

- Connector 1: 4.3-10 Male Right Angle
- Connector 2: N Male Right Angle
- 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 PE3C8318-100CM 4.3-10 male right angle to type N male right angle 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 male gender configuration with 50 ohm flexible TFT-5G-402 coax. The PE3C8318-100CM 4.3-10 male to type N 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 4.3-10 and right angle type N interfaces on the TFT-5G-402 cable allow for easier connections in tight spaces. 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 4.3-10 connector and 0.1 dB for the N connector.

Mechanical Specifications

Cable Assembly

Width/Diameter 0.86 in [21.84 mm]

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 Right Angle | N Male Right Angle |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Right Angle | Right Angle |
| Mating Cycles | 500 | |
| Contact Material and Plating | Brass, Silver | Brass, Silver |
| Contact Plating Specification | 200 μ in | 5 μ m |
| Dielectric Type | PTFE | PTFE |
| 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 | Brass, Tri-Metal |
| Coupling Nut Plating Specification | 80 μ in | 3 μ m |
| Torque | 44 in-lbs 4.97 Nm | 10 in-lbs 1.13 Nm |

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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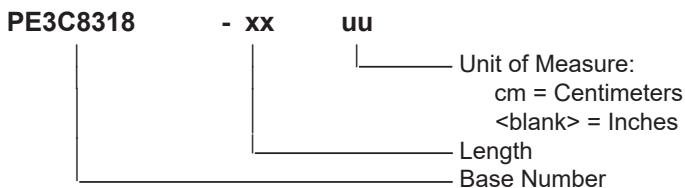


PE3C8318-100CM

Typical Performance Data

How to Order

Part Number Configuration:



Example: PE3C8318-12 = 12 inches long cable
PE3C8318-100cm = 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 Right Angle to N Male Right Angle Low PIM Cable 100 CM Length Using TFT-5G-402 Coax Using Times Microwave Components PE3C8318-100CM](#)

URL: <https://www.pasternack.com/4.3-10-male-right-angle-to-n-male-low-pim-cable-100-cm-length-using-tft-5g-402-pe3c8318-100cm.html>

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.

PE3C8318-100CM CAD Drawing

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