

## NEX10 Male Right Angle to NEX10 Male Right Angle Low PIM Cable Using TFT-5G-402 Coax

### PE3W17853

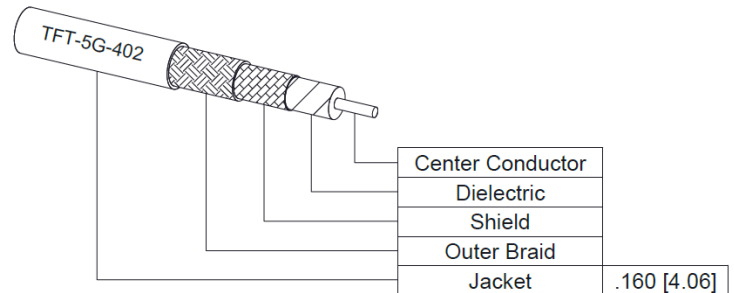


#### Configuration

- Connector 1: NEX10 Male Right Angle
- Connector 2: NEX10 Male Right Angle
- Cable Type: TFT-5G-402
- Coax Flex Type: Flexible

#### Features

- Max Frequency 4 GHz
- Low PIM: -160 dBc Max
- Shielding Effectivity > 80 dB
- 76% Phase Velocity
- Double Shielded
- FEP Jacket
- 500 Mating Cycles



#### Applications

- General Purpose
- Laboratory Use
- Low PIM Applications

#### Description

Pasternack's PE3W17853 NEX10 male right angle to NEX10 male right angle 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 NEX10 to NEX10 cable assembly has a male to male gender configuration with 50 ohm flexible TFT-5G-402 coax. The PE3W17853 NEX10 male to NEX10 male cable assembly operates to 4 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 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      |             | 4       | GHz          |
| VSWR                    |         |             | 1.4:1   |              |
| Velocity of Propagation |         | 76          |         | %            |
| RF Shielding            | 80      |             |         | dB           |
| Passive Intermodulation |         |             | -160    | dBc          |
| Capacitance             |         | 26.7 [87.6] |         | pF/ft [pF/m] |

#### Specifications by Frequency

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| Part Number     | Length                   | Description           | F1   | F2   | F3    | F4    | F5    | Units | Weight (lbs) |
|-----------------|--------------------------|-----------------------|------|------|-------|-------|-------|-------|--------------|
|                 |                          | Frequency             | 450  | 500  | 1000  | 2300  | 4000  | MHz   |              |
| PE3W17853       | Custom Lengths Available | Insertion Loss (Typ.) | 0.08 | 0.08 | 0.111 | 0.182 | 0.239 | dB/ft |              |
|                 |                          |                       | 0.26 | 0.27 | 0.37  | 0.6   | 0.79  | dB/m  |              |
| PE3W17853-12    | 12 inch                  | Insertion Loss (Typ.) | 0.48 | 0.49 | 0.52  | 0.59  | 0.64  | dB    | 0.088        |
| PE3W17853-24    | 24 inch                  | Insertion Loss (Typ.) | 0.56 | 0.57 | 0.63  | 0.77  | 0.88  | dB    | 0.117        |
| PE3W17853-36    | 36 inch                  | Insertion Loss (Typ.) | 0.64 | 0.65 | 0.74  | 0.95  | 1.12  | dB    | 0.145        |
| PE3W17853-60    | 60 inch                  | Insertion Loss (Typ.) | 0.8  | 0.81 | 0.96  | 1.31  | 1.6   | dB    | 0.201        |
| PE3W17853-200CM | 200 CM                   | Insertion Loss (Typ.) | 0.92 | 0.94 | 1.13  | 1.6   | 1.97  | dB    | 0.245        |

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:                | 0.088 pounds   |
| Additional Weight per Inch: | 0.00234 pounds |

### Mechanical Specifications

#### Cable Assembly

|                |                     |
|----------------|---------------------|
| Width/Diameter | 0.5 in [12.7 mm]    |
| Weight         | 0.088 lbs [39.92 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                  |
| Shield Layer 1                         | Tin                |
| Outer Conductor 1 Material and Plating | Copper, Tin        |
| 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                               | NEX10 Male Right Angle | NEX10 Male Right Angle |
| Impedance                          | 50 Ohms                | 50 Ohms                |
| Configuration                      | Right Angle            | Right Angle            |
| Mating Cycles                      | 500                    | 500                    |
| Contact Material and Plating       | Brass, Silver          | Brass, Silver          |
| Contact Plating Specification      | 200 µin                | 200 µin                |
| Dielectric Type                    | PTFE                   | PTFE                   |
| Body Material and Plating          | Brass, Tri-Metal       | Brass, Tri-Metal       |
| Body Plating Specification         | 100 µin                | 100 µin                |
| Coupling Nut Material and Plating  | Brass, Tri-Metal       | Brass, Tri-Metal       |
| Coupling Nut Plating Specification | 100 µin                | 100 µin                |
| Torque                             | 13 in-lbs 1.47 Nm      | 13 in-lbs 1.47 Nm      |

### Environmental Specifications

Operating Range Temperature -40 to +125 deg C

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

### Plotted and Other Data

Notes:

## NEX10 Male Right Angle to NEX10 Male Right Angle Low PIM Cable Using TFT-5G-402 Coax



### PE3W17853

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3W17853**

**- xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3W17853-12 = 12 inches long cable  
PE3W17853-100cm = 100 cm long cable

NEX10 Male Right Angle to NEX10 Male Right Angle Low PIM Cable Using TFT-5G-402 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 TFT-5G-402 Coax PE3W17853](#)

URL: <https://www.pasternack.com/nex10-male-right-angle-to-nex10-male-low-pim-cable-using-tft-5g-402-pe3w17853-p.aspx>

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