



## SMA Male to TNC Male Low Loss Cable Using LMR-400 Coax

### RF Cable Assemblies Technical Data Sheet

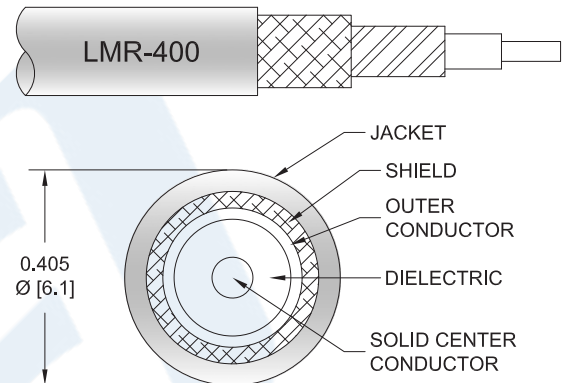
**PE3W11579**

#### Configuration

- Connector 1: SMA Male
- Connector 2: TNC Male
- Cable Type: LMR-400

#### Features

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- Double Shielded
- PE Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W11579 SMA male to TNC male cable using LMR-400 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 SMA to TNC cable assembly has a male to male gender configuration with 50 ohm flexible LMR-400 coax. The PE3W11579 SMA male to TNC male cable assembly operates to 5.8 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to TNC Male Low Loss Cable Using LMR-400 Coax PE3W11579](#)



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#### Electrical Specifications

| Description                   | Minimum | Typical      | Maximum | Units                            |
|-------------------------------|---------|--------------|---------|----------------------------------|
| Frequency Range               | DC      |              | 5.8     | GHz                              |
| VSWR                          |         |              | 1.4:1   |                                  |
| Velocity of Propagation       |         | 85           |         | %                                |
| RF Shielding                  | 90      |              |         | dB                               |
| Group Delay                   |         | 1.2 [3.94]   |         | ns/ft [ns/m]                     |
| Capacitance                   |         | 23.9 [78.41] |         | pF/ft [pF/m]                     |
| Inductance                    |         | 0.06 [0.2]   |         | uH/ft [uH/m]                     |
| DC Resistance Inner Conductor |         | 1.39 [4.56]  |         | $\Omega$ /1000ft [ $\Omega$ /Km] |
| DC Resistance Outer Conductor |         | 1.65 [5.41]  |         | $\Omega$ /1000ft [ $\Omega$ /Km] |
| Jacket Spark                  |         |              | 8,000   | Vrms                             |

#### Specifications by Frequency

| Description           | F1   | F2    | F3    | F4    | F5    | Units |
|-----------------------|------|-------|-------|-------|-------|-------|
| Frequency             | 0.25 | 0.5   | 1     | 2.5   | 5.8   | GHz   |
| Insertion Loss (Typ.) | 0.02 | 0.028 | 0.041 | 0.068 | 0.108 | dB/ft |
|                       | 0.07 | 0.09  | 0.13  | 0.22  | 0.35  | dB/m  |

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

#### Mechanical Specifications

##### Cable Assembly

Weight 0.23 lbs [104.33 g]

##### Cable

Cable Type LMR-400  
 Impedance 50 Ohms  
 Inner Conductor Type Solid  
 Inner Conductor Material and Plating Copper Clad Aluminum  
 Dielectric Type PE (F)  
 Number of Shields 2  
 Shield Layer 1 Aluminum Tape  
 Shield Layer 2 Tinned Copper Braid  
 Jacket Material PE, Black  
 Jacket Diameter 0.405 in [10.29 mm]

One Time Minimum Bend Radius 1 in [25.4 mm]

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## SMA Male to TNC Male Low Loss Cable Using LMR-400 Coax

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|                              |                        |
|------------------------------|------------------------|
| Repeated Minimum Bend Radius | 4 in [101.6 mm]        |
| Bending Moment               | 0.5 lbs-ft [0.68 N-m]  |
| Flat Plate Crush             | 40 lbs/in [0.71 Kg/mm] |
| Tensile Strength             | 160 lbs [72.57 Kg]     |

#### Connectors

| Description                          | Connector 1        | Connector 2            |
|--------------------------------------|--------------------|------------------------|
| Type                                 | SMA Male           | TNC Male               |
| Impedance                            | 50 Ohms            | 50 Ohms                |
| Mating Cycles                        |                    | 500                    |
| Contact Material and Plating         | Brass, Gold        | Beryllium Copper, Gold |
| Dielectric Type                      | PTFE               | PTFE                   |
| Outer Conductor Material and Plating |                    | Brass, Tri-Metal       |
| Body Material and Plating            | Brass, Gold        | Brass, Tri-Metal       |
| Coupling Nut Material and Plating    | Brass, Gold        | Brass, Tri-Metal       |
| Hex Size                             | 5/16 inch          | 5/8 inch               |
| Torque                               | 3 in-lbs [0.34 Nm] | 4 in-lbs [0.45 Nm]     |

#### Environmental Specifications

##### Temperature

Operating Range -40 to +85 deg C

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

#### Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to TNC Male Low Loss Cable Using LMR-400 Coax PE3W11579](#)



## SMA Male to TNC Male Low Loss Cable Using LMR-400 Coax

### RF Cable Assemblies Technical Data Sheet

**PE3W11579**

#### How to Order

Part Number Configuration:

**PE3W11579**

- **xx**

**uu**

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

Example: PE3W11579-12 = 12 inches long cable  
PE3W11579-100cm = 100 cm long cable

SMA Male to TNC Male Low Loss Cable Using LMR-400 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.

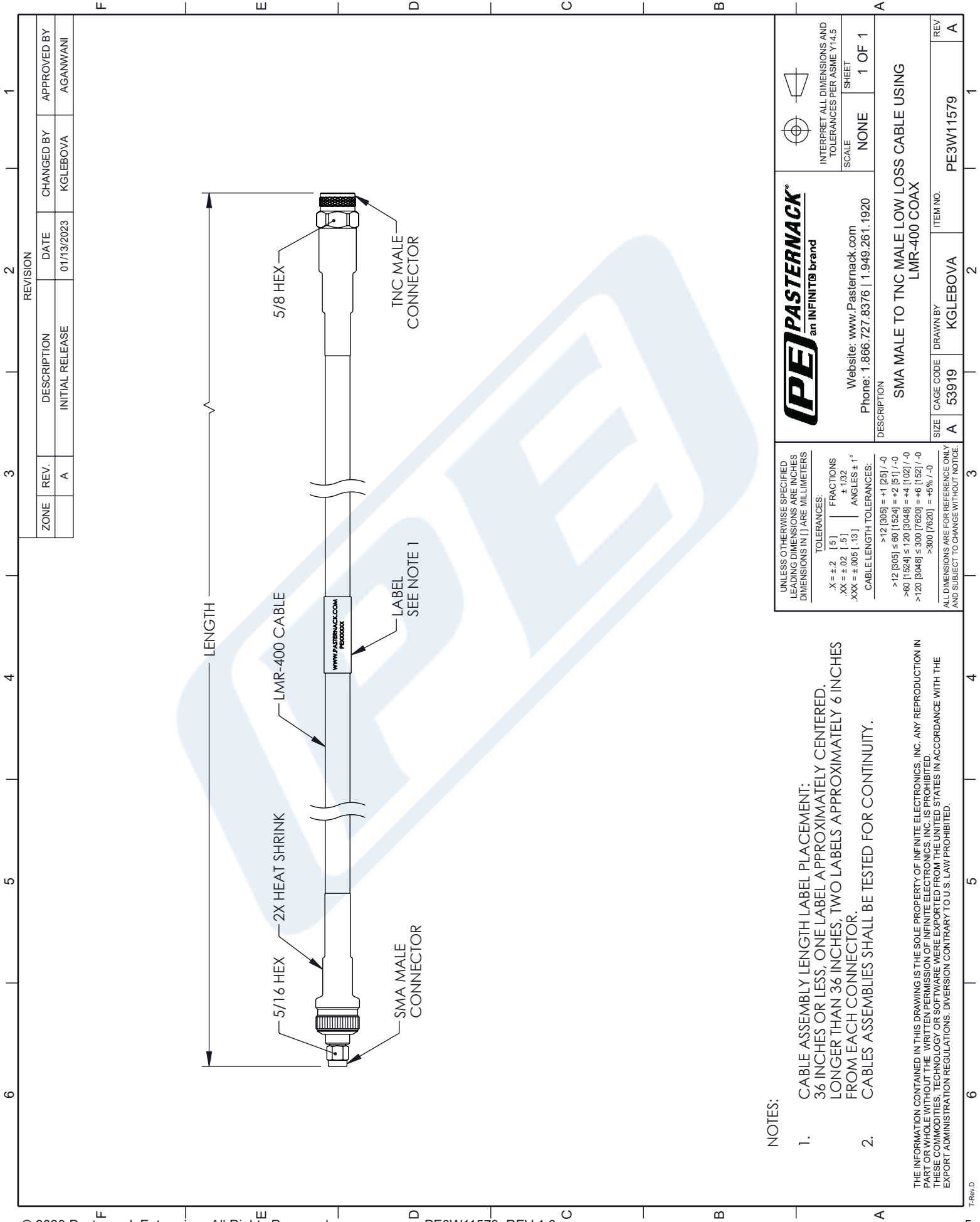
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to TNC Male Low Loss Cable Using LMR-400 Coax PE3W11579](https://www.pasternack.com/sma-male-to-tnc-male-low-loss-cable-using-lmr-400-pe3w11579-p.aspx)

URL: <https://www.pasternack.com/sma-male-to-tnc-male-low-loss-cable-using-lmr-400-pe3w11579-p.aspx>

The information contained in 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 reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

# PE3W11579 CAD Drawing

## SMA Male to TNC Male Low Loss Cable Using LMR-400 Coax



| REVISION |      | DATE        | CHANGED BY      | APPROVED BY |
|----------|------|-------------|-----------------|-------------|
| ZONE     | REV. | DESCRIPTION | INITIAL RELEASE |             |
|          | A    |             | 01/13/2023      | AGANWANI    |

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an INFINITO brand

Website: [www.Pasternack.com](http://www.Pasternack.com)  
Phone: 1.866.727.8376 | 1.949.261.1920

DESCRIPTION  
SMA MALE TO TNC MALE LOW LOSS CABLE USING LMR-400 COAX

SIZE A CAGE CODE 53919 DRAWN BY KGLEBOVA ITEM NO. PE3W11579

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE NONE SHEET 1 OF 1

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:  
 .X = ±.2 [ .5 ] FRACTIONS ±.1032  
 .XX = ±.02 [ .5 ] ANGLES ± 1°  
 .XXX = ±.005 [ .13 ]  
 CABLE LENGTH TOLERANCES:  
 >12 [305] = +1 [25] / -0  
 >12 [305] ≤ 60 [1524] = +2 [51] / -0  
 >60 [1524] ≤ 120 [3048] = +4 [102] / -0  
 >120 [3048] ≤ 300 [7620] = +6 [152] / -0  
 >300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.

- NOTES:**
- CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
  - CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
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