



Reverse Polarity SMA Plug Right Angle to TNC  
Male Low Loss Cable Using LMR-195 Coax

**RF Cable Assemblies Technical Data Sheet**

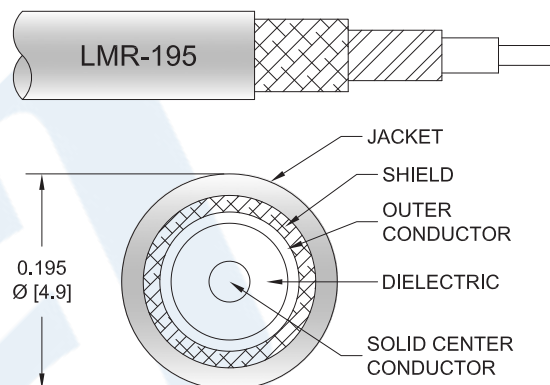
**PE3W08618**

**Configuration**

- Connector 1: SMA Plug Reverse Polarity Right Angle
- Connector 2: TNC Male
- Cable Type: LMR-195

**Features**

- Shielding Effectivity > 90 dB
- 80% Phase Velocity
- Double Shielded
- PE Jacket



**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3W08618 reverse polarity SMA plug right angle to TNC male cable using LMR-195 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 reverse polarity SMA to TNC cable assembly has a plug to male gender configuration with 50 ohm flexible LMR-195 coax. The right angle SMA interface on the LMR-195 cable allows for easier connections in tight spaces. 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: [Reverse Polarity SMA Plug Right Angle to TNC Male Low Loss Cable Using LMR-195 Coax PE3W08618](#)



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### Electrical Specifications

| Description                   | Minimum | Typical      | Maximum | Units                            |
|-------------------------------|---------|--------------|---------|----------------------------------|
| Velocity of Propagation       |         | 80           |         | %                                |
| RF Shielding                  | 90      |              |         | dB                               |
| Group Delay                   |         | 1.27 [4.17]  |         | ns/ft [ns/m]                     |
| Capacitance                   |         | 25.4 [83.33] |         | pF/ft [pF/m]                     |
| Inductance                    |         | 0.064 [0.21] |         | uH/ft [uH/m]                     |
| DC Resistance Inner Conductor |         | 7.6 [24.93]  |         | $\Omega$ /1000ft [ $\Omega$ /Km] |
| DC Resistance Outer Conductor |         | 4.9 [16.08]  |         | $\Omega$ /1000ft [ $\Omega$ /Km] |
| Jacket Spark                  |         |              | 3,000   | Vrms                             |

### Mechanical Specifications

#### Cable Assembly

Weight 0.069 lbs [31.3 g]

#### Cable

|                                      |                        |
|--------------------------------------|------------------------|
| Cable Type                           | LMR-195                |
| Impedance                            | 50 Ohms                |
| Inner Conductor Type                 | Solid                  |
| Inner Conductor Material and Plating | Copper                 |
| 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                      | 0.195 in [4.95 mm]     |
| One Time Minimum Bend Radius         | 0.5 in [12.7 mm]       |
| Repeated Minimum Bend Radius         | 2 in [50.8 mm]         |
| Bending Moment                       | 0.2 lbs-ft [0.27 N-m]  |
| Flat Plate Crush                     | 15 lbs/in [0.27 Kg/mm] |
| Tensile Strength                     | 40 lbs [18.14 Kg]      |

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### Connectors

| Description                        | Connector 1                           | Connector 2     |
|------------------------------------|---------------------------------------|-----------------|
| Type                               | SMA Plug Reverse Polarity Right Angle | TNC Male        |
| Impedance                          | 50 Ohms                               | 50 Ohms         |
| Contact Material and Plating       | Beryllium Copper, Gold                | Brass, Gold     |
| Contact Plating Specification      |                                       | 30 µin minimum  |
| Dielectric Type                    | PTFE                                  | PTFE            |
| Body Material and Plating          | Brass, Nickel                         | Brass, Nickel   |
| Body Plating Specification         |                                       | 100 µin minimum |
| Coupling Nut Material and Plating  | Brass, Nickel                         | Brass, Nickel   |
| Coupling Nut Plating Specification |                                       | 100 µin minimum |
| Hex Size                           | 5/16 in                               |                 |
| Torque                             | 5 in-lbs [0.57 Nm]                    |                 |

**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: [Reverse Polarity SMA Plug Right Angle to TNC Male Low Loss Cable Using LMR-195 Coax PE3W08618](#)



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**PE3W08618**

**How to Order**

Part Number Configuration:

**PE3W08618**

- **xx**

**uu**

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

Example: PE3W08618-12 = 12 inches long cable  
PE3W08618-100cm = 100 cm long cable

Reverse Polarity SMA Plug Right Angle to TNC Male Low Loss Cable Using LMR-195 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.

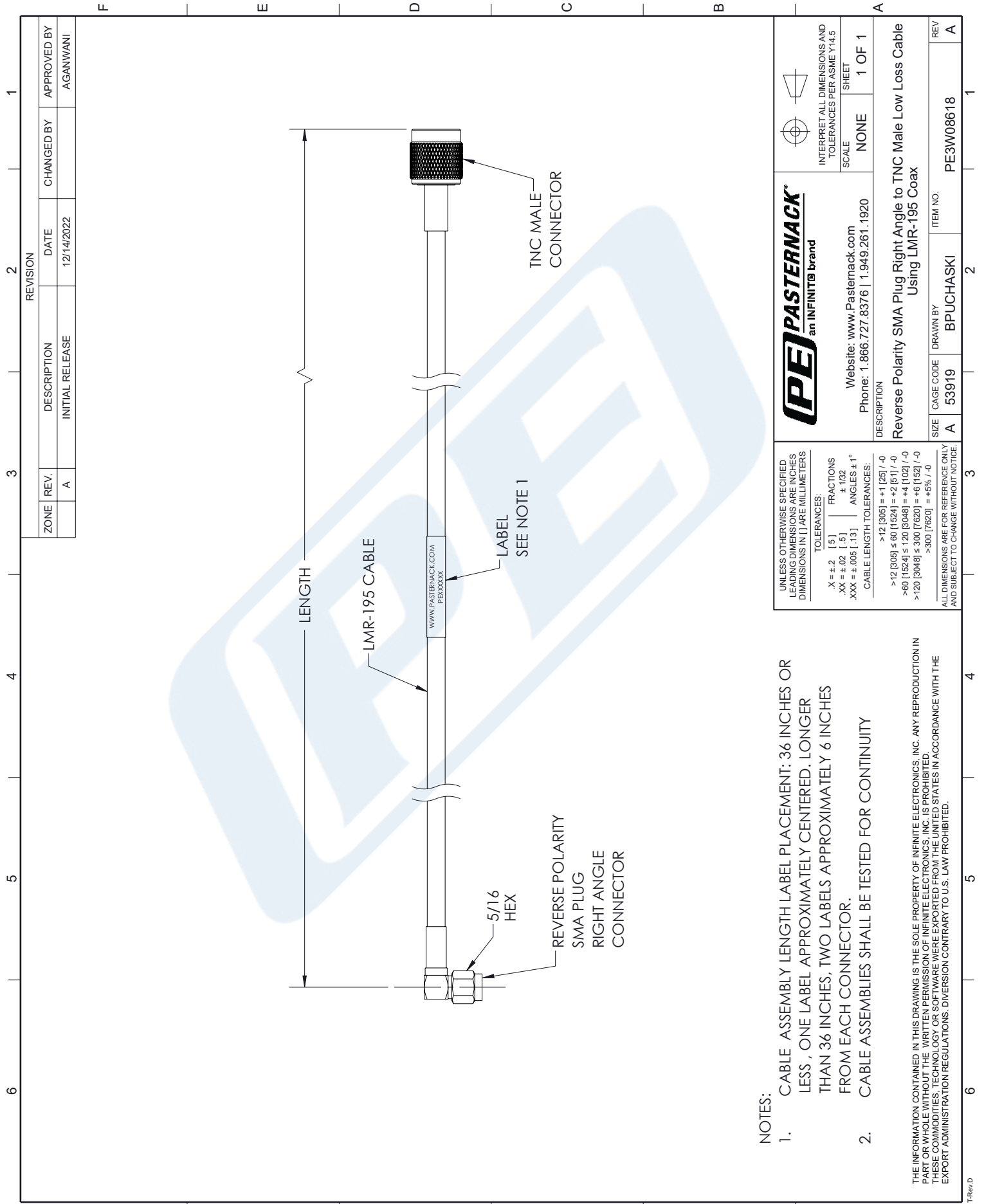
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Reverse Polarity SMA Plug Right Angle to TNC Male Low Loss Cable Using LMR-195 Coax PE3W08618](https://www.pasternack.com/reverse-polarity-sma-plug-right-angle-to-tnc-male-low-loss-cable-using-lmr-195-pe3w08618)

URL: <https://www.pasternack.com/reverse-polarity-sma-plug-right-angle-to-tnc-male-low-loss-cable-using-lmr-195-pe3w08618-p.aspx>

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# PE3W08618 CAD Drawing

Reverse Polarity SMA Plug Right Angle to TNC Male  
Low Loss Cable Using LMR-195 Coax



## NOTES:

1. 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.
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY

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|                                                                                                                                                                                                                                                            | DESCRIPTION<br>Reverse Polarity SMA Plug Right Angle to TNC Male Low Loss Cable Using LMR-195 Coax                                                                            |
| SIZE: A<br>CAGE CODE: 53919<br>DRAWN BY: BPUCHASKI<br>ITEM NO.: PE3W08618                                                                                                                                                                                  | REV: A                                                                                                                                                                        |

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

TOLERANCES:

|                     |             |
|---------------------|-------------|
| X = ±.2 [ .5 ]      | FRACTIONS   |
| .XX = ±.02 [ .5 ]   | ± 1/32      |
| XXX = ±.005 [ .13 ] | ANGLES ± 1° |

CABLE LENGTH TOLERANCES:

|                                           |
|-------------------------------------------|
| >12 [305] = +1 [25] / -0                  |
| >12 [305] ≤ 60 [1524] = +2 [9.1] / -0     |
| >60 [1524] ≤ 120 [3048] = +4 [1.02] / -0  |
| >120 [3048] ≤ 300 [7620] = +6 [1.52] / -0 |
| >300 [7620] = +5% / -0                    |

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