



SMA Male Right Angle to N Male Right Angle  
Cable 12 Inch Length Using LMR-195 Coax

**RF Cable Assemblies Technical Data Sheet**

**PE3W00852-12**

**Configuration**

- Connector 1: SMA Male Right Angle
- Connector 2: N Male Right Angle
- Cable Type: LMR-195

**Features**

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 80% Phase Velocity
- Double Shielded
- PE Jacket

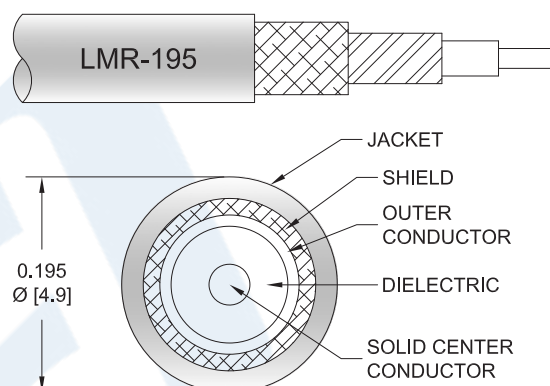
**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3W00852-12 SMA male right angle to type N male right angle 12 inch 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 SMA to type N cable assembly has a male to male gender configuration with 50 ohm flexible LMR-195 coax. The PE3W00852-12 SMA male to type N male cable assembly operates to 5.8 GHz. The right angle SMA and right angle type N interfaces on the LMR-195 cable allow 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: [SMA Male Right Angle to N Male Right Angle Cable 12 Inch Length Using LMR-195 Coax PE3W00852-12](#)



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**Electrical Specifications**

| Description                   | Minimum | Typical      | Maximum | Units           |
|-------------------------------|---------|--------------|---------|-----------------|
| Frequency Range               | DC      |              | 5.8     | GHz             |
| VSWR                          |         |              | 1.5:1   |                 |
| 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]  |         | Ω/1000ft [Ω/Km] |
| DC Resistance Outer Conductor |         | 4.9 [16.08]  |         | Ω/1000ft [Ω/Km] |
| Jacket Spark                  |         |              | 3,000   | Vrms            |

**Specifications by Frequency**

| Description           | F1   | F2   | F3   | F4   | F5  | Units |
|-----------------------|------|------|------|------|-----|-------|
| Frequency             | 0.25 | 0.5  | 1    | 2.5  | 5.8 | GHz   |
| Insertion Loss (Max.) | 0.26 | 0.28 | 0.31 | 0.39 | 0.5 | dB    |

**Electrical Specification Notes:**

The Insertion Loss data above is based on the performance specifications of the coax cable used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1dB per connector

**Mechanical Specifications**

**Cable Assembly**

|          |                   |
|----------|-------------------|
| Length*  | 12 in [304.8 mm]  |
| Diameter | 0.8 in [20.32 mm] |

**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 |

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|                              |                        |
|------------------------------|------------------------|
| 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]      |

**Connectors**

| Description                        | Connector 1          | Connector 2        |
|------------------------------------|----------------------|--------------------|
| Type                               | SMA Male Right Angle | N Male Right Angle |
| Specification                      | MIL-STD-348A         |                    |
| Impedance                          | 50 Ohms              | 50 Ohms            |
| Mating Cycles                      |                      | 500                |
| Contact Material and Plating       | Brass, Gold          | Brass, Gold        |
| Contact Plating Specification      | 50µ in. minimum      | 50µ in. minimum    |
| Dielectric Type                    | Teflon               | Teflon             |
| Body Material and Plating          | Brass, Nickel        | Brass, Tri-Metal   |
| Body Plating Specification         | 100µ in. minimum     | 80µ in. minimum    |
| Coupling Nut Material and Plating  | Brass, Nickel        | Brass, Tri-Metal   |
| Coupling Nut Plating Specification | 100µ in. minimum     | 80µ in. minimum    |
| Hex Size                           | 5/16 in.             | 30                 |
| Torque                             | 5 in-lbs [0.57 Nm]   |                    |

**Mechanical Specification Notes:**

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8$ ", whichever is greater.

**Environmental Specifications**

**Temperature**

Operating Range -40 to +85 deg C

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

**Plotted and Other Data**

Notes:

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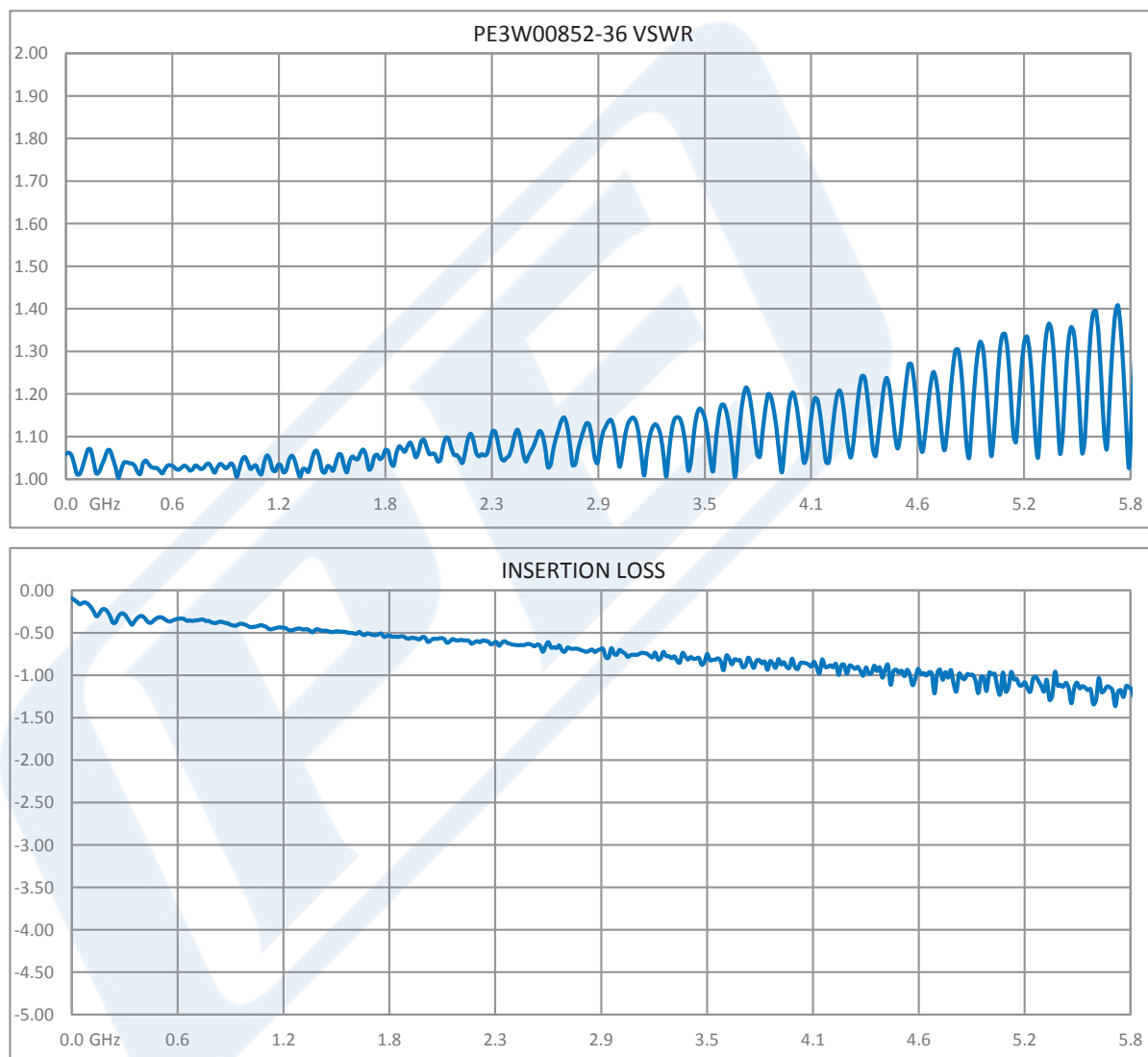


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**PE3W00852-12**

### Typical Performance Data



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**PE3W00852-12**

**How to Order**

Part Number Configuration:

**PE3W00852**

**- xx**

**uu**

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

Example: PE3W00852-12 = 12 inches long cable  
PE3W00852-100cm = 100 cm long cable

SMA Male Right Angle to N Male Right Angle Cable 12 Inch Length 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.

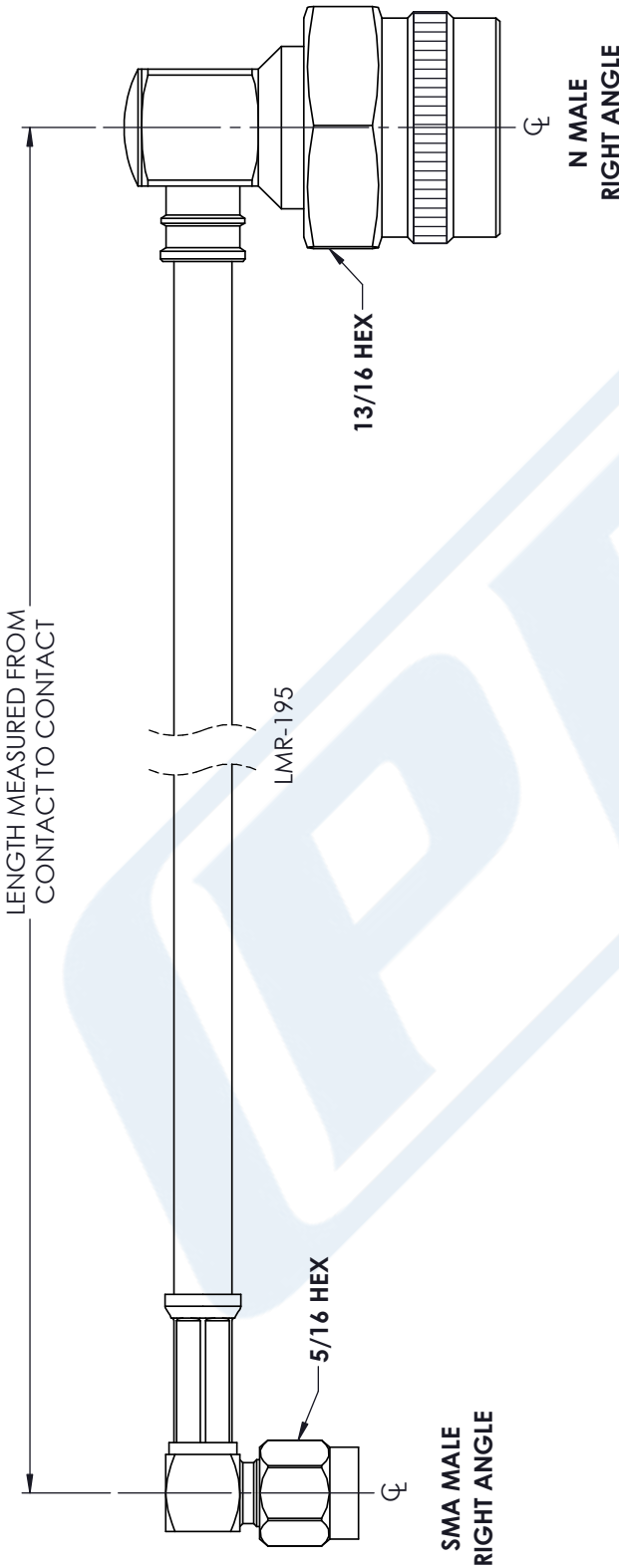
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Right Angle to N Male Right Angle Cable 12 Inch Length Using LMR-195 Coax PE3W00852-12](https://www.pasternack.com/sma-male-n-male-lmr195-cable-assembly-pe3w00852-12-p.aspx)

URL: <https://www.pasternack.com/sma-male-n-male-lmr195-cable-assembly-pe3w00852-12-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.

PE3W00852-12 CAD Drawing

SMA Male Right Angle to N Male Right Angle Cable 12 Inch Length Using LMR-195 Coax



| STANDARD TOLERANCES |        |
|---------------------|--------|
| .X                  | ±0.2   |
| .XX                 | ±0.01  |
| .XXX                | ±0.005 |

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



**PASTERNAK**  
THE ENGINEER'S RF SOURCE

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|           |           |
|-----------|-----------|
| DWG TITLE | PE3W00852 |
| CAGE CODE | 53919     |

|                                                                                                                                                                                     |          |          |       |     |      |   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|-------|-----|------|---|
| NOTES:<br>1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.<br>2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.<br>3. DIMENSIONS ARE IN INCHES [mm]. | CAD FILE | 05/02/18 | SCALE | N/A | SIZE | A |
| CN2379                                                                                                                                                                              |          |          |       |     |      |   |