

## Waterproof IP68 SMA Male (Plug) to TNC Male (Plug) Low Loss Cable 24 Inch Length Using LMR®-195 Coax with Times Microwave Components



### PE3C4164/WP-24

#### Configuration

- Connector 1: SMA Male
- Connector 2: TNC Male
- Cable Type: LMR®-195
- Coax Flex Type: Flexible

#### Features

- Shielding Effectivity > 90 dB
- 80% Phase Velocity
- Double Shielded
- PE Jacket
- Silicone Connector Boot
- IP68 Rated

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C4164/WP-24 SMA male to TNC male 24 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 TNC cable assembly has a male to male gender configuration with 50 ohm flexible LMR®-195 coax. 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.

#### Electrical Specifications

| Description                          | Minimum | Typical      | Maximum | Units                 |
|--------------------------------------|---------|--------------|---------|-----------------------|
| Velocity of Propagation              |         | 80           |         | %                     |
| RF Shielding                         | 90      |              |         | dB                    |
| 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]  |         | Ohms/1000ft [Ohms/Km] |
| DC Resistance Outer Conductor        |         | 4.9 [16.08]  |         | Ohms/1000ft [Ohms/Km] |
| Dielectric Withstanding Voltage (DC) |         |              | 1,000   | Vdc                   |
| Jacket Spark                         |         |              | 3,000   | Vrms                  |

#### Mechanical Specifications

**Cable Assembly**  
Length

24 in [609.6 mm]

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|                                      |                        |
|--------------------------------------|------------------------|
| Width/Diameter                       | 0.5 in [12.7 mm]       |
| Weight                               | 0.604 lbs [273.97 g]   |
| <b>Cable</b>                         |                        |
| 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                     |
| 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                   | TNC Male               |
| Option                            | Weatherproof Boot          |                        |
| Impedance                         | 50 Ohms                    | 50 Ohms                |
| Configuration                     | Straight                   | Straight               |
| Contact Material and Plating      | Brass, Gold                | Beryllium Copper, Gold |
| Contact Plating Specification     | ASTM B488                  |                        |
| Dielectric Type                   | Teflon                     | Teflon                 |
| Body Material and Plating         | Passivated Stainless Steel | Brass, Silver          |
| Coupling Nut Material and Plating | Passivated Stainless Steel | Brass, Silver          |
| Boot Material                     | Silicone                   | Silicone               |

### Environmental Specifications

|                                |      |
|--------------------------------|------|
| Ingress Protection (IP) Rating | IP68 |
|--------------------------------|------|

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

### Plotted and Other Data

Notes:  
Values at 25°C, sea level.

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### PE3C4164/WP-24

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3C4164/WP**

**- xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C4164/WP-12 = 12 inches long cable  
PE3C4164/WP-100cm = 100 cm long cable

Waterproof IP68 SMA Male (Plug) to TNC Male (Plug) Low Loss Cable 24 Inch Length Using LMR®-195 Coax with Times Microwave Components 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: [Waterproof IP68 SMA Male \(Plug\) to TNC Male \(Plug\) Low Loss Cable 24 Inch Length Using LMR®-195 Coax with Times Microwave Components PE3C4164/WP-24](https://www.pasternack.com/waterproof-ip68-sma-male-plug-to-tnc-male-plug-low-loss-cable-24-inch-length-using-lmr-195-pe3c4164-wp-24-p.aspx)

URL: <https://www.pasternack.com/waterproof-ip68-sma-male-plug-to-tnc-male-plug-low-loss-cable-24-inch-length-using-lmr-195-pe3c4164-wp-24-p.aspx>

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PE3C4164/WP-24 CAD Drawing

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