

TNC Male to SC Male Cable Using RG393 Coax

PE3W11768

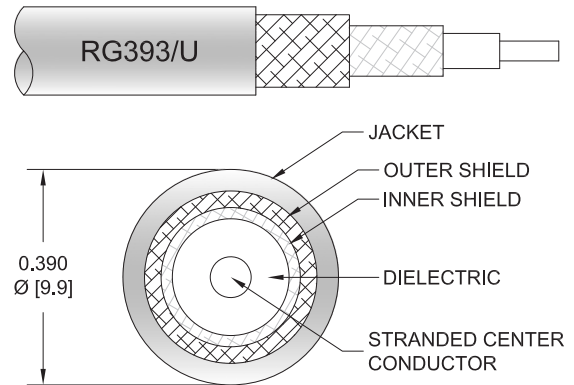


Configuration

- Connector 1: TNC Male
- Connector 2: SC Male
- Cable Type: RG393
- Coax Flex Type: Flexible

Features

- Max Frequency 6 GHz
- 69.5% Phase Velocity
- Double Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W11768 TNC male to SC male cable using RG393 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 TNC to SC cable assembly has a male to male gender configuration with 50 ohm flexible RG393 coax. The PE3W11768 TNC male to SC male cable assembly operates to 6 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

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 | | 6 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 69.5 | | % |
| Capacitance | | 29.4 [96.46] | | pF/ft [pF/m] |

Specifications by Frequency

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| Part Number | Length | Description | F1 | F2 | F3 | F4 | F5 | Units | Weight (lbs) |
|--------------|--------------------------|-----------------------|------|-------|-------|-------|-------|-------|--------------|
| | | Frequency | 250 | 500 | 1000 | 2500 | 6000 | MHz | |
| PE3W11768 | Custom Lengths Available | Insertion Loss (Typ.) | 0.03 | 0.045 | 0.075 | 0.125 | 0.238 | dB/ft | |
| | | | 0.1 | 0.15 | 0.25 | 0.42 | 0.79 | dB/m | |
| PE3W11768-12 | 12 In | Insertion Loss (Typ.) | 0.23 | 0.25 | 0.28 | 0.33 | 0.44 | dB | 0.339 |
| PE3W11768-24 | 24 In | Insertion Loss (Typ.) | 0.26 | 0.29 | 0.35 | 0.45 | 0.68 | dB | 0.497 |
| PE3W11768-36 | 36 In | Insertion Loss (Typ.) | 0.29 | 0.34 | 0.43 | 0.58 | 0.92 | dB | 0.655 |
| PE3W11768-60 | 60 In | Insertion Loss (Typ.) | 0.35 | 0.43 | 0.58 | 0.83 | 1.39 | dB | 0.97 |
| PE3W11768-72 | 72 In | Insertion Loss (Typ.) | 0.38 | 0.47 | 0.65 | 0.95 | 1.63 | dB | 1.127 |

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: | 0.1 dB |
| Loss due to Connector 2: | 0.1 dB |
| Base Weight: | 0.339 pounds |
| Additional Weight per Inch: | 0.01313 pounds |

Mechanical Specifications

Cable Assembly

| | |
|----------------|----------------------|
| Width/Diameter | 0.5 in [12.7 mm] |
| Weight | 0.339 lbs [153.77 g] |

Cable

| | |
|--------------------------------------|----------------------------|
| Cable Type | RG393 |
| Impedance | 50 Ohms |
| Inner Conductor Type | Stranded |
| Inner Conductor Material and Plating | Copper, Silver |
| Dielectric Type | PTFE |
| Number of Shields | 2 |
| Shield Layer 1 | Silver Plated Copper Braid |
| Shield Layer 2 | Silver Plated Copper Braid |
| Jacket Material | FEP, Tan |
| Jacket Diameter | 0.39 in [9.91 mm] |
| Repeated Minimum Bend Radius | 3.9 in [99.06 mm] |

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Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------------|-----------------|-----------------|
| Type | TNC Male | SC Male |
| Specification | MIL-STD-348A | MIL-STD-348A |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Straight | Straight |
| Mating Cycles | 500 | |
| Contact Material and Plating | Brass, Gold | Brass, Silver |
| Contact Plating Specification | 30 µin minimum | 200 µin minimum |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Nickel | Brass, Nickel |
| Body Plating Specification | 100 µin minimum | 100 µin minimum |
| Coupling Nut Material and Plating | Brass, Nickel | Brass, Nickel |
| Coupling Nut Plating Specification | | 100 µin minimum |

Environmental Specifications

Operating Range Temperature -55 to +165 deg C

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

Plotted and Other Data

Notes:

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PE3W11768

Typical Performance Data

How to Order

Part Number Configuration: **PE3W11768 - xx uu**

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

Example: PE3W11768-12 = 12 inches long cable
 PE3W11768-100cm = 100 cm long cable

TNC Male to SC Male Cable Using RG393 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: [TNC Male to SC Male Cable Using RG393 Coax PE3W11768](#)

URL: <https://www.pasternack.com/tnc-male-to-sc-male-cable-using-rg393-pe3w11768-p.aspx>

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

PE3W11768 CAD Drawing
TNC Male to SC Male Cable Using RG393 Coax

