

Reverse Polarity SMA Plug to TNC Male Cable Using RG316 Coax, LF Solder



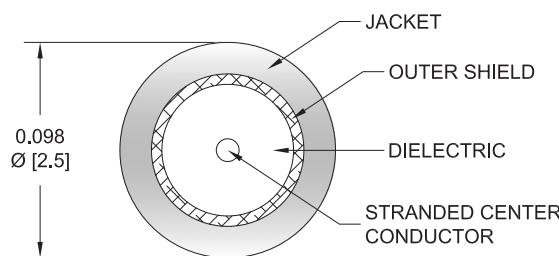
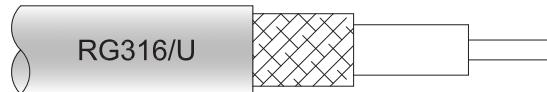
PE3C8566LF

Configuration

- Connector 1: SMA Plug Reverse Polarity
- Connector 2: TNC Male
- Cable Type: RG316
- Coax Flex Type: Flexible

Features

- Max Frequency 3 GHz
- 69% Phase Velocity
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C8566LF reverse polarity SMA plug to TNC male cable using RG316 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 RG316 coax. The PE3C8566LF reverse polarity SMA plug to TNC male cable assembly operates to 3 GHz.

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 | | 3 | GHz |
| VSWR | | 1.4:1 | | |
| Velocity of Propagation | | 69 | | % |
| Dielectric Withstanding Voltage (AC) | | | 750 | Vrms |
| Jacket Spark | | | 2,000 | Vrms |

Specifications by Frequency

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| Part Number | Length | Description | F1 | F2 | F3 | F4 | F5 | Units | Weight (lbs) |
|---------------|--------------------------|-----------------------|------|------|-------|------|------|-------|--------------|
| | | Frequency | 100 | 250 | 500 | 1000 | 3000 | MHz | |
| PE3C8566LF | Custom Lengths Available | Insertion Loss (Typ.) | 0.11 | 0.16 | 0.238 | 0.38 | 0.58 | dB/ft | |
| | | | 0.37 | 0.53 | 0.79 | 1.25 | 1.91 | dB/m | |
| PE3C8566LF-12 | 12 inch | Insertion Loss (Typ.) | 0.25 | 0.31 | 0.41 | 0.58 | 0.86 | dB | 0.061 |
| PE3C8566LF-24 | 24 inch | Insertion Loss (Typ.) | 0.36 | 0.47 | 0.65 | 0.96 | 1.44 | dB | 0.072 |
| PE3C8566LF-36 | 36 inch | Insertion Loss (Typ.) | 0.47 | 0.63 | 0.89 | 1.34 | 2.02 | dB | 0.082 |
| PE3C8566LF-48 | 48 inch | Insertion Loss (Typ.) | 0.58 | 0.79 | 1.13 | 1.72 | 2.6 | dB | 0.092 |
| PE3C8566LF-72 | 72 inch | Insertion Loss (Typ.) | 0.8 | 1.11 | 1.6 | 2.48 | 3.76 | dB | 0.112 |

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: 0.1xsqrt(fGHz) dB

Base Weight: 0.061 pounds

Additional Weight per Inch: 0.00084 pounds

Mechanical Specifications

Cable Assembly

Weight 0.061 lbs [27.67 g]

Cable

| | |
|--------------------------------------|----------------------------|
| Cable Type | RG316 |
| Impedance | 50 Ohms |
| Inner Conductor Type | Stranded |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type | PTFE |
| Number of Shields | 1 |
| Shield Layer 1 | Silver Plated Copper Braid |
| Jacket Material | FEP, Tan |
| Jacket Diameter | 0.102 in [2.59 mm] |

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Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------------|---------------------------|------------------------|
| Type | SMA Plug Reverse Polarity | TNC Male |
| Specification | MIL-STD-348 | |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Straight | Straight |
| Contact Material and Plating | Gold | Beryllium Copper, Gold |
| Contact Plating Specification | MIL-G-45204 | 15 μ in minimum |
| Dielectric Type | PTFE | Teflon |
| Body Material and Plating | Brass, Nickel | Brass, Nickel |
| Body Plating Specification | QQ-N-290 | 100 μ in minimum |
| Coupling Nut Material and Plating | Brass, Nickel | Brass, Nickel |
| Coupling Nut Plating Specification | QQ-N-290 | 100 μ in minimum |
| Hex Size | 5/16 inch | |
| Torque | 3 in-lbs 0.34 Nm | |

Environmental Specifications

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

Plotted and Other Data

Notes:

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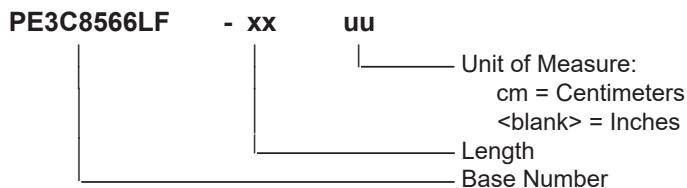


PE3C8566LF

Typical Performance Data

How to Order

Part Number Configuration:



Example: PE3C8566LF-12 = 12 inches long cable
PE3C8566LF-100cm = 100 cm long cable

Reverse Polarity SMA Plug to TNC Male Cable Using RG316 Coax, LF Solder 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 to TNC Male Cable Using RG316 Coax, LF Solder PE3C8566LF](#)

URL: <https://www.pasternack.com/reverse-polarity-sma-plug-to-tnc-male-cable-using-rg316-lf-solder-pe3c8566lf-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.

PE3C8566LF CAD Drawing

Reverse Polarity SMA Plug to TNC Male Cable Using RG316 Coax, LF Solder

