



SMA Male to TNC Female Cable 60 Inch Length Using RG142 Coax , LF Solder

RF Cable Assemblies Technical Data Sheet

PE3491LF-60

Configuration

- Connector 1: SMA Male
- Connector 2: TNC Female
- Cable Type: RG142

Features

- Max Frequency 3 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket

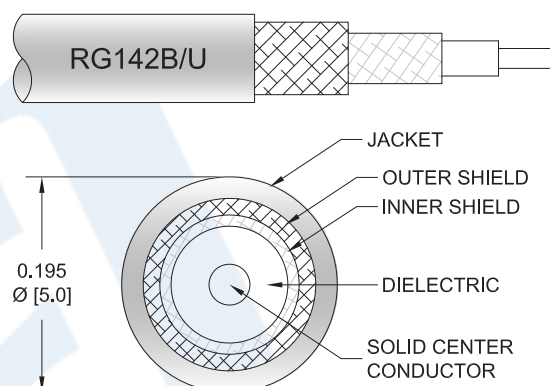
Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3491LF-60 SMA male to TNC female 60 inch cable using RG142 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 female gender configuration with 50 ohm flexible RG142 coax. The PE3491LF-60 SMA male to TNC female cable assembly operates to 3 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.



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to TNC Female Cable 60 Inch Length Using RG142 Coax , LF Solder PE3491LF-60](#)



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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------|---------|--------------|---------|--------------|
| Frequency Range | DC | | 3 | GHz |
| VSWR | | | 1.45:1 | |
| Velocity of Propagation | | 70 | | % |
| Capacitance | | 29.4 [96.46] | | pF/ft [pF/m] |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|------|-----|-----|-------|
| Frequency | 0.1 | 0.25 | 0.5 | 1 | 3 | GHz |
| Insertion Loss (Typ.) | 0.85 | 1.2 | 1.65 | 2.3 | 4.1 | dB |

Electrical Specification Notes:

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

Mechanical Specifications

Cable Assembly

Length* 60 in [152.4 cm]

Cable

Cable Type RG142
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper Clad Steel, 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 0.195 in [4.95 mm]

Repeated Minimum Bend Radius 1 in [25.4 mm]

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Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------------|--------------------|---------------|
| Type | SMA Male | TNC Female |
| Specification | MIL-STD-348A | |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Brass, Gold | |
| Contact Plating Specification | 50 µin minimum | |
| Dielectric Type | PTFE | |
| Body Material and Plating | Brass, Nickel | Brass, Nickel |
| Body Plating Specification | 100 µin minimum | |
| Coupling Nut Material and Plating | Brass, Nickel | |
| Coupling Nut Plating Specification | 100 µin minimum | |
| Hex Size | 5/16 inch | |
| Torque | 3 in-lbs [0.34 Nm] | |

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

Plotted and Other Data

Notes:

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RF Cable Assemblies Technical Data Sheet

PE3491LF-60

How to Order

Part Number Configuration:

PE3491LF

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

Example: PE3491LF-12 = 12 inches long cable
PE3491LF-100cm = 100 cm long cable

SMA Male to TNC Female Cable 60 Inch Length Using RG142 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: [SMA Male to TNC Female Cable 60 Inch Length Using RG142 Coax , LF Solder PE3491LF-60](#)

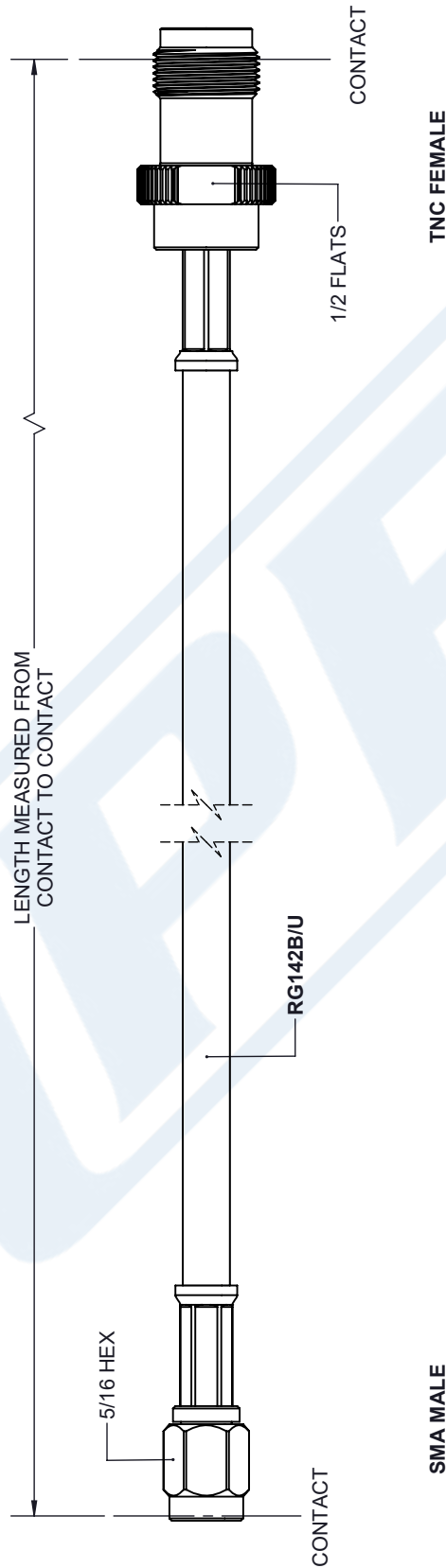
URL: <https://www.pasternack.com/sma-male-tnc-female-rg142bu-cable-assembly-pe3491lf-60-p.aspx>

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.

PE3491LF-60 CAD Drawing

SMA Male to TNC Female Cable 60 Inch Length Using RG142 Coax , LF Solder

| REVISIONS | | | |
|-----------|-----------------|------------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | INITIAL RELEASE | 10/19/2020 | S. ELLIS |



| | | | | | | | |
|--------------------------------------------------------------------------------------------------|--|--|--|-------------------------------------------------------------------------------------|--|-----------------|--|
| UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS | | | | THIRD-ANGLE PROJECTION | | | |
| TOLERANCES: | | | |  | | | |
| X = ± .2 [.008] FRACTIONS | | | | THE INFORMATION AND | | | |
| .XX = ± .02 [.51] ANGLES ± 1° | | | | DESIGN IN THIS DOCUMENT | | | |
| XXX = ± .005 [.13] ANGLES ± 1° | | | | IS THE PROPERTY OF | | | |
| CABLE LENGTH (L) TOLERANCES: | | | | PASTERNAK CORPORATION | | | |
| L ≤ 12 [305] = +1 [25] / -0 | | | | ALL RIGHTS RESERVED. | | | |
| 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 | | | | SHEET 1 OF 1 | | | |
| 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 | | | | SCALE N/A | | | |
| 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 | | | | REV A | | | |
| 300 [7620] < L = +5% / -0 | | | | PE3491LF | | | |
| ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. | | | | ITEM NO. | | | |
| SIZE A | | | | CAGE CODE 53919 | | DRAWN BY K.DANG | |
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