



N Male to TNC Male Right Angle Cable Using RG142 Coax with HeatShrink, LF Solder

RF Cable Assemblies Technical Data Sheet

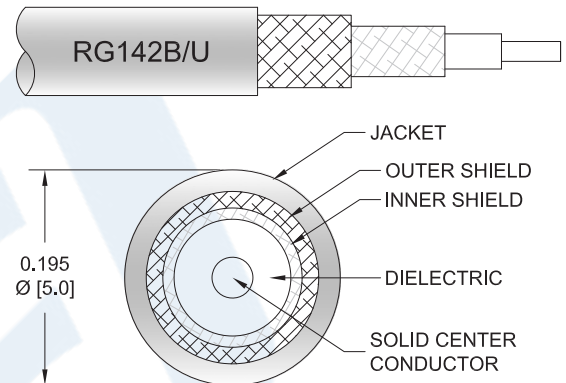
PE3W02219LF/HS

Configuration

- Connector 1: N Male
- Connector 2: TNC Male Right Angle
- Cable Type: RG142

Features

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



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W02219LF/HS type N male to TNC male right angle 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 type N to TNC cable assembly has a male to male gender configuration with 50 ohm flexible RG142 coax. The PE3W02219LF/HS type N male to TNC male cable assembly operates to 3 GHz. The right angle TNC interface on the RG142 cable allows for easier connections in tight spaces. 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: [N Male to TNC Male Right Angle Cable Using RG142 Coax with HeatShrink, LF Solder PE3W02219LF/HS](#)



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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------|---------|--------------|---------|--------------|
| Frequency Range | DC | | 3 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 70 | | % |
| Capacitance | | 29.4 [96.46] | | pF/ft [pF/m] |
| Operating Voltage (AC) | | | 500 | Vrms |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|-------|-------|-------|------|-------|-------|
| Frequency | 0.1 | 0.25 | 0.5 | 1 | 3 | GHz |
| Insertion Loss (Typ.) | 0.039 | 0.054 | 0.079 | 0.13 | 0.238 | dB/ft |
| | 0.13 | 0.18 | 0.26 | 0.43 | 0.78 | dB/m |

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the N male connector and 0.2 dB for the TNC male connector.

Mechanical Specifications

Cable Assembly

Weight 0.173 lbs [78.47 g]

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 | N Male | TNC Male Right Angle |
| Specification | MIL-STD-348A | MIL-STD-348A |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Brass, Gold | Brass, Gold |
| Contact Plating Specification | 30 µin | 30 µin minimum |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Tri-Metal | Brass, Nickel |
| Body Plating Specification | | 100 µin minimum |
| Coupling Nut Material and Plating | Brass, Tri-Metal | Brass, Nickel |
| Coupling Nut Plating Specification | | 100 µin minimum |
| Hex Size | 18 mm | |
| Torque | 9 in-lbs [1.02 Nm] | |

Environmental Specifications

Temperature

Operating Range -55 to +165 deg C

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

Plotted and Other Data

Notes:

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PE3W02219LF/HS

How to Order

Part Number Configuration:

PE3W02219LF/HS - xx

uu

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

Example: PE3W02219LF/HS-12 = 12 inches long cable
PE3W02219LF/HS-100cm = 100 cm long cable

N Male to TNC Male Right Angle Cable Using RG142 Coax with HeatShrink, 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.

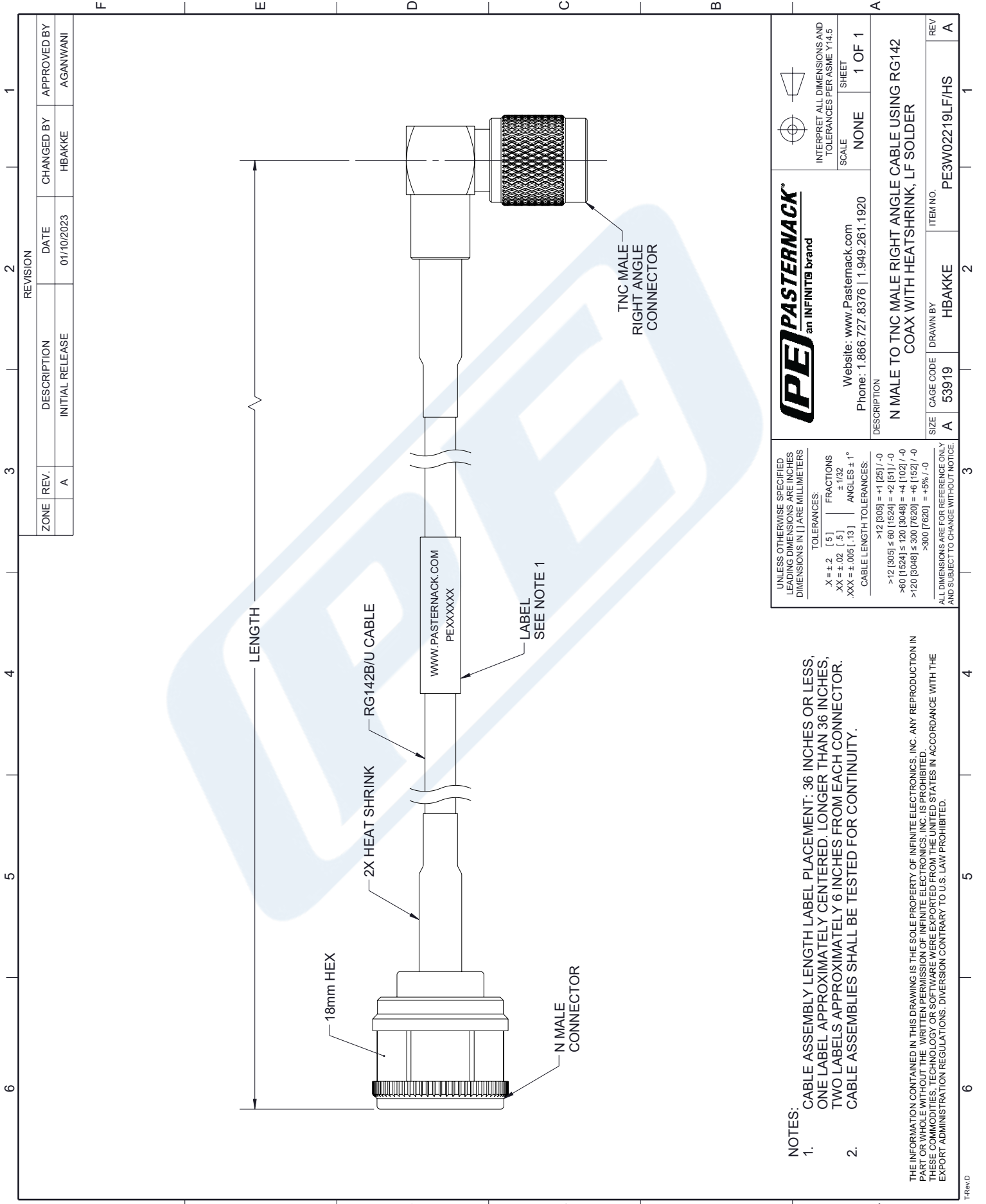
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male to TNC Male Right Angle Cable Using RG142 Coax with HeatShrink, LF Solder PE3W02219LF/HS](https://www.pasternack.com/n-male-to-tnc-male-cable-using-rg142-with-heatshrink-lf-solder-pe3w02219lf-hs-p.aspx)

URL: <https://www.pasternack.com/n-male-to-tnc-male-cable-using-rg142-with-heatshrink-lf-solder-pe3w02219lf-hs-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.

PE3W02219LF/HS CAD Drawing

N Male to TNC Male Right Angle Cable Using RG142 Coax with HeatShrink, LF Solder



| | |
|--|--|
| | INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1 |
|--|--|

| | |
|---|----------------------------|
| | |
| Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920 | |
| DESCRIPTION N MALE TO TNC MALE RIGHT ANGLE CABLE USING RG142 COAX WITH HEATSHRINK, LF SOLDER | ITEM NO. PE3W02219LF/HS |
| SIZE A 53919 | DRAWN BY HBAKKE |

| | |
|--|--|
| UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS TOLERANCES: X = ±.2 [.5] FRACTIONS .XX = ±.02 [.5] ±.1/32 .XXX = ±.005 [.13] ANGLES ± 1° CABLE LENGTH TOLERANCES: >12 [305] = +1 [25] / -0 >12 [305] ≤ 60 [1524] = +2 [51] / -0 >60 [1524] ≤ 120 [3048] = +4 [102] / -0 >120 [3048] ≤ 300 [7620] = +6 [152] / -0 >300 [7620] = +5% / -0 | ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE |
|--|--|

NOTES:

- CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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