



## TNC Male Right Angle to TNC Male Right Angle Low Loss Cable Using LMR-195 Coax, LF Solder

### TECHNICAL DATA SHEET

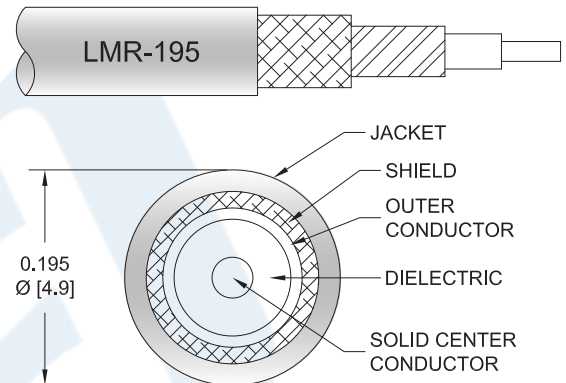
**PE3C1874LF**

#### Configuration

- Connector 1: TNC Male Right Angle
- Connector 2: TNC Male Right Angle
- Cable Type: LMR-195
- Coax Flex Type: Flexible

#### Features

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 80% Phase Velocity
- Double Shielded
- PE Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C1874LF TNC male right angle to TNC male right angle 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 TNC to TNC cable assembly has a male to male gender configuration with 50 ohm flexible LMR-195 coax. The PE3C1874LF TNC male to TNC male cable assembly operates to 3 GHz. The right angle TNC interfaces on the LMR-195 cable allow for easier connections in tight spaces. 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Male Right Angle to TNC Male Right Angle Low Loss Cable Using LMR-195 Coax, LF Solder PE3C1874LF](#)



## TNC Male Right Angle to TNC Male Right Angle Low Loss Cable Using LMR-195 Coax, LF Solder

### TECHNICAL DATA SHEET

**PE3C1874LF**

#### Electrical Specifications

| Description                   | Minimum | Typical      | Maximum | Units                            |
|-------------------------------|---------|--------------|---------|----------------------------------|
| Frequency Range               | DC      |              | 3       | GHz                              |
| VSWR                          |         |              | 1.4:1   |                                  |
| Velocity of Propagation       |         | 80           |         | %                                |
| RF Shielding                  | 90      |              |         | dB                               |
| Group Delay                   |         | 1.27 [4.17]  |         | ns/ft [ns/m]                     |
| 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]  |         | $\Omega$ /1000ft [ $\Omega$ /Km] |
| DC Resistance Outer Conductor |         | 4.9 [16.08]  |         | $\Omega$ /1000ft [ $\Omega$ /Km] |
| Jacket Spark                  |         |              | 3,000   | Vrms                             |

#### Specifications by Frequency

| Part Number   | Length                   | Description           | F1   | F2   | F3   | F4   | F5   | Units | Weight (lbs) |
|---------------|--------------------------|-----------------------|------|------|------|------|------|-------|--------------|
|               |                          | Frequency             | 100  | 250  | 500  | 1000 | 3000 | MHz   |              |
| PE3C1874LF    | Custom Lengths Available | Insertion Loss (Typ.) | 0.03 | 0.06 | 0.08 | 0.12 | 0.21 | dB/ft |              |
|               |                          |                       | 0.12 | 0.19 | 0.27 | 0.39 | 0.68 | dB/m  |              |
| PE3C1874LF-12 | 12 inch                  | Insertion Loss (Typ.) | 0.44 | 0.46 | 0.49 | 0.52 | 0.61 | dB    | 0.146        |
| PE3C1874LF-24 | 24 inch                  | Insertion Loss (Typ.) | 0.47 | 0.52 | 0.57 | 0.64 | 0.82 | dB    | 0.169        |
| PE3C1874LF-36 | 36 inch                  | Insertion Loss (Typ.) | 0.51 | 0.58 | 0.65 | 0.75 | 1.02 | dB    | 0.191        |
| PE3C1874LF-48 | 48 inch                  | Insertion Loss (Typ.) | 0.54 | 0.63 | 0.73 | 0.87 | 1.23 | dB    | 0.213        |
| PE3C1874LF-60 | 60 inch                  | Insertion Loss (Typ.) | 0.57 | 0.69 | 0.81 | 0.98 | 1.43 | dB    | 0.235        |

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:    | 0.2 dB         |
| Loss due to Connector 2:    | 0.2 dB         |
| Base Weight:                | 0.146 pounds   |
| Additional Weight per Inch: | 0.00075 pounds |

#### Mechanical Specifications

##### Cable Assembly

Weight 0.146 lbs [66.22 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Male Right Angle to TNC Male Right Angle Low Loss Cable Using LMR-195 Coax, LF Solder PE3C1874LF](#)



## TNC Male Right Angle to TNC Male Right Angle Low Loss Cable Using LMR-195 Coax, LF Solder

### TECHNICAL DATA SHEET

**PE3C1874LF**

#### Cable

|                                      |                        |
|--------------------------------------|------------------------|
| 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, Black              |
| 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                               | TNC Male Right Angle Threaded | TNC Male Right Angle Threaded |
| 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 minimum                | 30 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               | 100 µin minimum               |

#### Environmental Specifications

##### Temperature

Operating Range -40 to +85 deg C

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

#### Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Male Right Angle to TNC Male Right Angle Low Loss Cable Using LMR-195 Coax, LF Solder PE3C1874LF](#)



## TNC Male Right Angle to TNC Male Right Angle Low Loss Cable Using LMR-195 Coax, LF Solder

### TECHNICAL DATA SHEET

**PE3C1874LF**

#### How to Order

Part Number Configuration:

**PE3C1874LF**

- **xx**

**uu**

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

Example: PE3C1874LF-12 = 12 inches long cable  
PE3C1874LF-100cm = 100 cm long cable

TNC Male Right Angle to TNC Male Right Angle Low Loss Cable Using LMR-195 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.

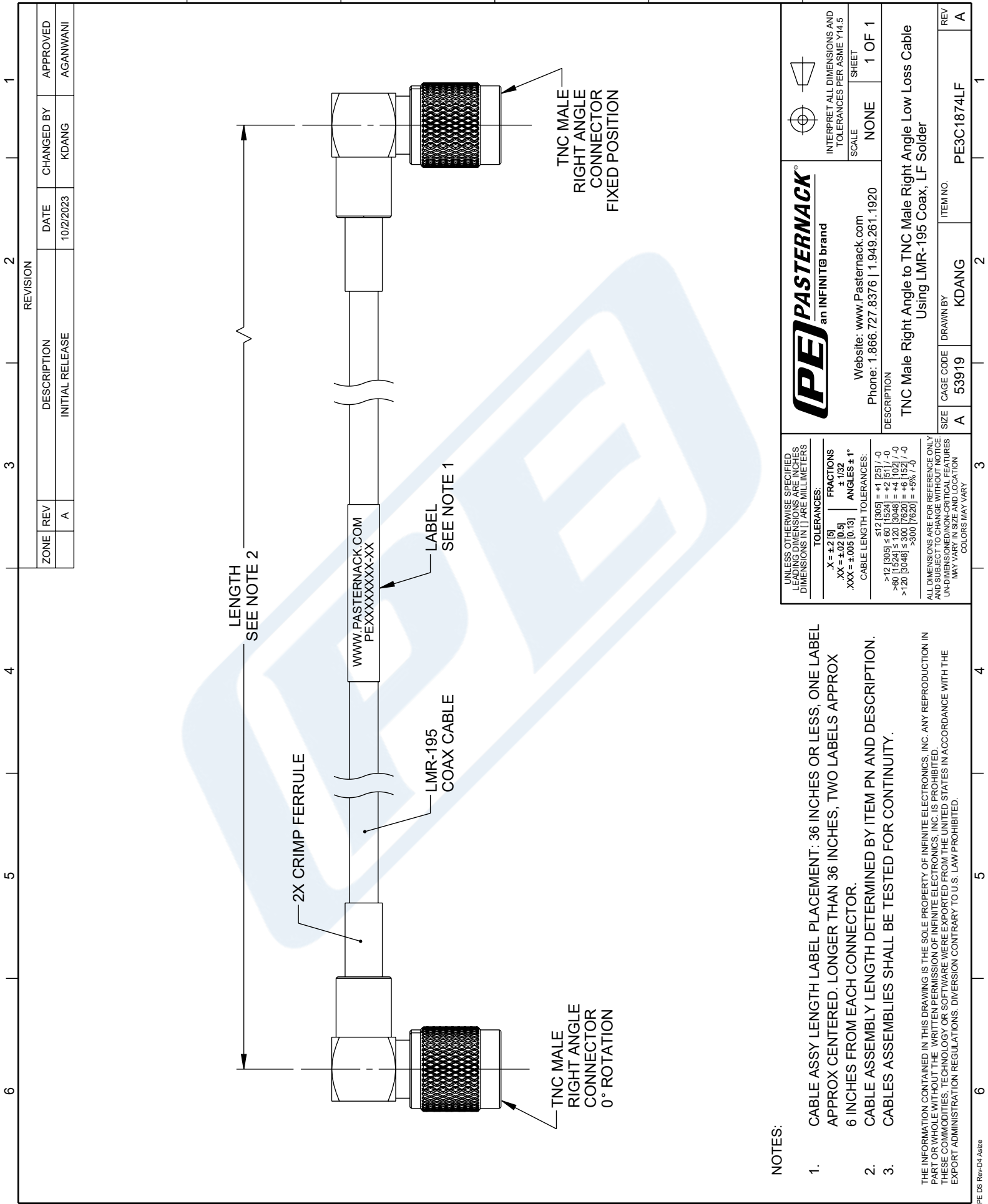
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URL: <https://www.pasternack.com/tnc-male-right-angle-to-tnc-male-low-loss-cable-using-lmr-195-lf-solder-pe3c1874lf-p.aspx>

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.

# PE3C1874LF CAD Drawing

TNC Male Right Angle to TNC Male Right Angle Low Loss Cable Using LMR-195 Coax, LF Solder



## NOTES:

1. CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
3. CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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|                                                                                                                                                                 |             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| UNLESS OTHERWISE SPECIFIED<br>LEADING DIMENSIONS ARE IN INCHES<br>DIMENSIONS IN [ ] ARE IN MILLIMETERS                                                          |             |
| TOLERANCES:                                                                                                                                                     | FRACTIONS   |
| .X = ±.2 [5]                                                                                                                                                    | ± 1/32      |
| .XX = ±.02 [0.5]                                                                                                                                                | ± 1/64      |
| .XXX = ±.005 [0.13]                                                                                                                                             | ± 1/16      |
| CABLE LENGTH TOLERANCES:                                                                                                                                        | ANGLES ± 1° |
| ≤ 12 [305] = ±.1 [25] / -0                                                                                                                                      |             |
| > 12 [305] ≤ 60 [1524] = ±.2 [51] / -0                                                                                                                          |             |
| > 60 [1524] ≤ 120 [3048] = ±.4 [102] / -0                                                                                                                       |             |
| > 120 [3048] ≤ 360 [9144] = ±.8 [203] / -0                                                                                                                      |             |
| > 360 [9144] = ±.98 [25] / -0                                                                                                                                   |             |
| ALL DIMENSIONS ARE FOR REFERENCE ONLY<br>AND SUBJECT TO CHANGE WITHOUT NOTICE<br>UNLESS OTHERWISE SPECIFIED<br>MAY VARY IN SIZE AND LOCATION<br>COLORS MAY VARY |             |

|                                                                                                             |                     |
|-------------------------------------------------------------------------------------------------------------|---------------------|
| <b>PE PASTERNAK</b><br>an INFINITE brand                                                                    |                     |
| Website: www.Pasternack.com<br>Phone: 1.866.727.8376   1.949.261.1920                                       |                     |
| INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5                                                      | SHEET 1 OF 1        |
| DESCRIPTION<br>TNC Male Right Angle to TNC Male Right Angle Low Loss Cable<br>Using LMR-195 Coax, LF Solder |                     |
| SIZE A                                                                                                      | CAGE CODE 53919     |
| DRAWN BY KDANG                                                                                              | ITEM NO. PE3C1874LF |
| REV A                                                                                                       |                     |