



TNC Male Right Angle to BNC Male Low Loss Cable Using LMR-400-UF Coax With Times Microwave Components with HeatShrink

RF Cable Assemblies Technical Data Sheet

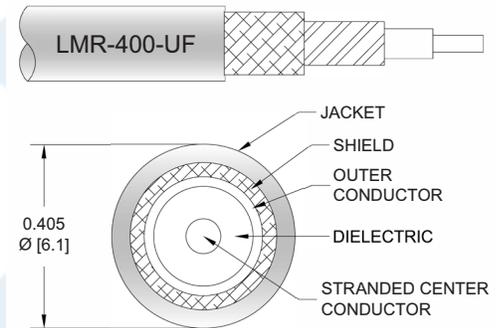
PE3C6745/HS

Configuration

- Connector 1: TNC Male Right Angle
- Connector 2: BNC Male
- Cable Type: LMR-400-UF

Features

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- Double Shielded
- TPE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C6745/HS TNC male right angle to BNC male cable using LMR-400-UF 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 BNC cable assembly has a male to male gender configuration with 50 ohm flexible LMR-400-UF coax. The PE3C6745/HS TNC male to BNC male cable assembly operates to 5.8 GHz. The right angle TNC interface on the LMR-400-UF cable allows 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 BNC Male Low Loss Cable Using LMR-400-UF Coax With Times Microwave Components with HeatShrink PE3C6745/HS](#)



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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------------|---------|--------------|---------|-----------------|
| Frequency Range | DC | | 5.8 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 85 | | % |
| RF Shielding | 90 | | | dB |
| Group Delay | | 1.2 [3.94] | | ns/ft [ns/m] |
| Capacitance | | 23.9 [78.41] | | pF/ft [pF/m] |
| Inductance | | 0.06 [0.2] | | uH/ft [uH/m] |
| DC Resistance Inner Conductor | | 1.07 [3.51] | | Ω/1000ft [Ω/Km] |
| DC Resistance Outer Conductor | | 1.65 [5.41] | | Ω/1000ft [Ω/Km] |
| Operating Voltage (AC) | | | 500 | Vrms |
| Jacket Spark | | | 8,000 | Vrms |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|-------|-------|------|-------|------|-------|
| Frequency | 0.25 | 0.5 | 1 | 2.5 | 5.8 | GHz |
| Insertion Loss (Typ.) | 0.023 | 0.035 | 0.05 | 0.081 | 0.13 | dB/ft |
| | 0.08 | 0.11 | 0.16 | 0.27 | 0.43 | dB/m |

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.05xSQRT(fGHz) dB for the right angle connector and 0.1 dB for the straight connector.

Mechanical Specifications

Cable Assembly

Weight 0.279 lbs [126.55 g]

Cable

Cable Type LMR-400-UF
 Impedance 50 Ohms
 Inner Conductor Type Stranded
 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

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| | |
|------------------------------|------------------------|
| Jacket Material | TPE, Black |
| Jacket Diameter | 0.405 in [10.29 mm] |
| One Time Minimum Bend Radius | 1 in [25.4 mm] |
| Repeated Minimum Bend Radius | 4 in [101.6 mm] |
| Bending Moment | 0.38 lbs-ft [0.52 N-m] |
| Flat Plate Crush | 20 lbs/in [0.36 Kg/mm] |
| Tensile Strength | 160 lbs [72.57 Kg] |

Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------------|----------------------|------------------|
| Type | TNC Male Right Angle | BNC Male |
| Impedance | 50 Ohms | 50 Ohms |
| Mating Cycles | | 500 |
| Contact Material and Plating | Brass, Silver | Brass, Gold |
| Contact Plating Specification | | 50 microns |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Silver | Brass, Tri-Metal |
| Body Plating Specification | | 80 microns |
| Coupling Nut Material and Plating | Brass, Silver | Brass, Tri-Metal |
| Coupling Nut Plating Specification | | 80 microns |

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C

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

Plotted and Other Data

Notes:

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PE3C6745/HS

How to Order

Part Number Configuration:

PE3C6745/HS - xx uu

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

Example: PE3C6745/HS-12 = 12 inches long cable
PE3C6745/HS-100cm = 100 cm long cable

TNC Male Right Angle to BNC Male Low Loss Cable Using LMR-400-UF Coax With Times Microwave Components with HeatShrink 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.

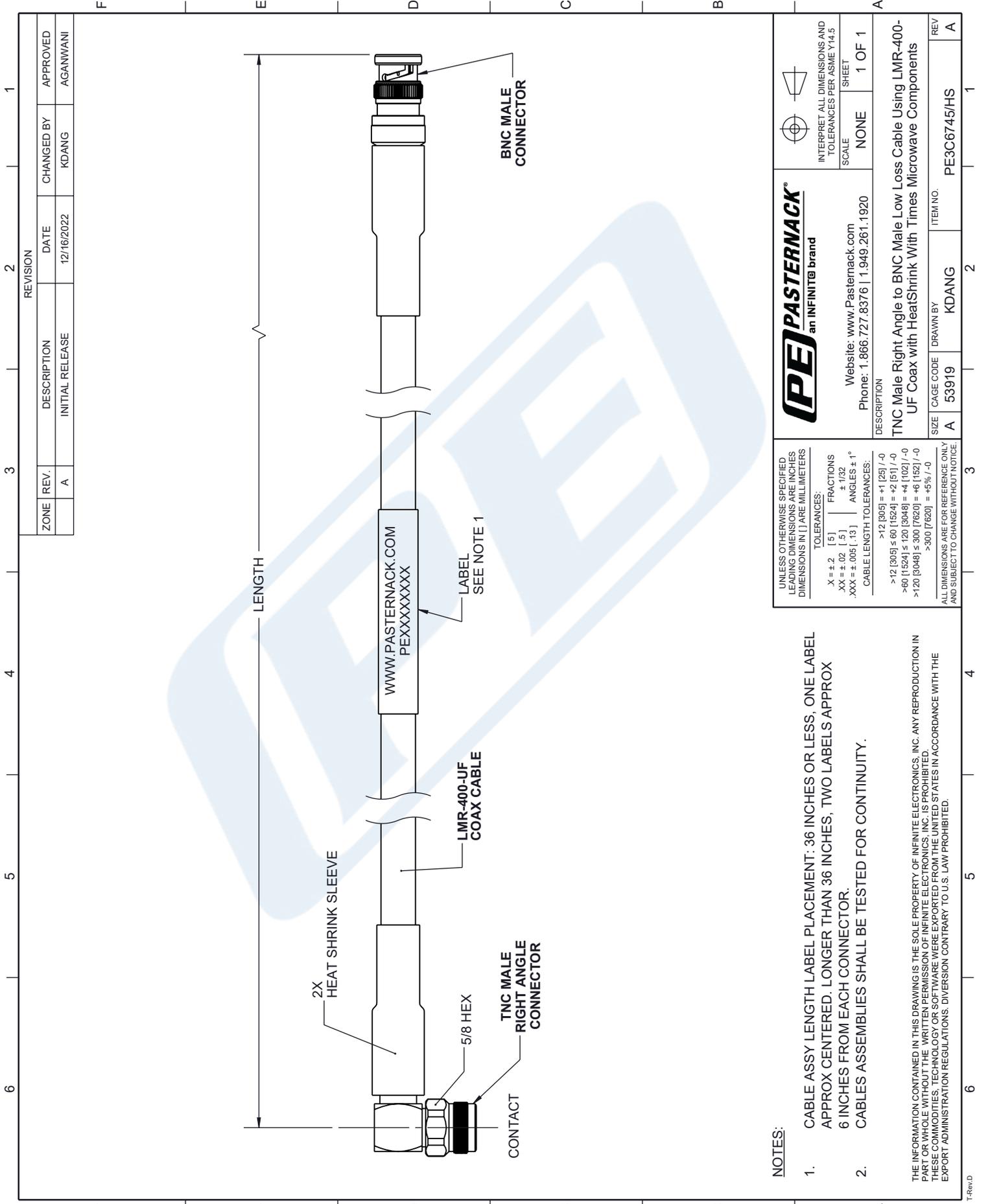
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URL: <https://www.pasternack.com/tnc-male-right-angle-to-bnc-male-low-loss-cable-using-lmr-400-uf-with-heatshrink-pe3c6745-hs-p.aspx>

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.

PE3C6745/HS CAD Drawing

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NOTES:

- 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.
- CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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| | | |
|---|--|-------------|
| | INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 | |
| | SCALE | SHEET |
| Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920 | NONE | 1 OF 1 |
| DESCRIPTION TNC Male Right Angle to BNC Male Low Loss Cable Using LMR-400-UF Coax with HeatShrink With Times Microwave Components | | |
| SIZE | CAGE CODE | ITEM NO. |
| A | 53919 | PE3C6745/HS |
| DRAWN BY | | REV |
| KDANG | | A |

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

| | | |
|--------------|-------|-------------|
| X = ±.2 | [.5] | FRACTIONS |
| .XX = ±.02 | [.13] | ± 1/32 |
| .XXX = ±.005 | [.13] | ANGLES ± 1° |

CABLE LENGTH TOLERANCES:

| | |
|--------------------------|-----------------|
| >12 [305] | = +1 [25] / -0 |
| >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