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# Water Blue FAKRA Jack to TNC Male Right Angle Low Loss Cable Using LMR-100A-UF Coax with HeatShrink

## RF Cable Assemblies Technical Data Sheet PE3W13530/HS

### Configuration

- Connector 1: FAKRA Jack
- Connector 2: TNC Male Right Angle
- Cable Type: LMR-100A-UF

### Features

- Max Frequency 4 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- TPE Jacket

### Applications

- General Purpose
- Laboratory Use

### Description

Pasternack's PE3W13530/HS water blue FAKRA jack to TNC male right angle cable using LMR-100A-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 FAKRA to TNC cable assembly has a jack to male gender configuration with 50 ohm flexible LMR-100A-UF coax. The PE3W13530/HS FAKRA jack to TNC male cable assembly operates to 4 GHz. The right angle TNC interface on the LMR-100A-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: Water Blue FAKRA Jack to TNC Male Right Angle Low Loss Cable Using LMR-100A-UF Coax with HeatShrink PE3W13530/HS

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### Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---|---|---|---|---|
| Frequency Range | DC | | 4 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 66 | | % |
| RF Shielding | 90 | | | dB |
| Group Delay | | 1.54 [5.05] | | ns/ft [ns/m] |
| Capacitance | | 30.8 [101.05] | | pF/ft [pF/m] |
| Inductance | | 0.077 [0.25] | | uH/ft [uH/m] |
| DC Resistance Inner Conductor | | 81 [265.75] | | Ω/1000ft [Ω/Km] |
| DC Resistance Outer Conductor | | 9.5 [31.17] | | Ω/1000ft [Ω/Km] |
| Jacket Spark | | | 2,000 | Vrms |

### Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|---|---|---|---|---|---|---|
| Frequency | 0.1 | 0.25 | 0.5 | 1 | 4 | GHz |
| Insertion Loss (Typ.) | 0.07 | 0.115 | 0.165 | 0.24 | 0.508 | dB/ft |
| | 0.23 | 0.38 | 0.54 | 0.79 | 1.67 | 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 straight connector and 0.2 dB for the right angle connector.

### Mechanical Specifications

**Cable Assembly**

| | |
|---|---|
| Weight | 0.066 lbs [29.94 g] |

**Cable**

| | |
|---|---|
| Cable Type | LMR-100A-UF |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper |
| Dielectric Type | PE |
| Number of Shields | 2 |
| Shield Layer 1 | Aluminum Tape |
| Shield Layer 2 | Tinned Copper |
| Jacket Material | TPE, Black |
| Jacket Diameter | 0.11 in [2.79 mm] |

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## RF Cable Assemblies Technical Data Sheet PE3W13530/HS

| | |
|---|---|
| One Time Minimum Bend Radius | 0.25 in [6.35 mm] |
| Repeated Minimum Bend Radius | 1 in [25.4 mm] |
| Bending Moment | 0.1 lbs-ft [0.14 N-m] |
| Flat Plate Crush | 10 lbs/in [0.18 Kg/mm] |
| Tensile Strength | 15 lbs [6.8 Kg] |

**Connectors**

| Description | Connector 1 | Connector 2 |
|---|---|---|
| Type | FAKRA Jack | TNC Male Right Angle |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Straight | Right Angle |
| Contact Material and Plating | Phosphor Bronze, Gold | Brass, Gold |
| Dielectric Type | PTFE | POM |
| Outer Conductor Material and Plating | Brass, Nickel | |
| Body Material and Plating | Plastic | Brass, Nickel |

### 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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## RF Cable Assemblies Technical Data Sheet PE3W13530/HS

### How to Order

Part Number Configuration: **PE3W13530/HS - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3W13530/HS — Base Number

Example: PE3W13530/HS-12 = 12 inches long cable
PE3W13530/HS-100cm = 100 cm long cable

Water Blue FAKRA Jack to TNC Male Right Angle Low Loss Cable Using LMR-100A-UF Coax 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.

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: Water Blue FAKRA Jack to TNC Male Right Angle Low Loss Cable Using LMR-100A-UF Coax with HeatShrink PE3W13530/HS

URL: https://www.pasternack.com/jack-to-tnc-male-low-loss-cable-using-lmr-100a-uf-with-heatshrink-pe3w13530-hs-p.aspx

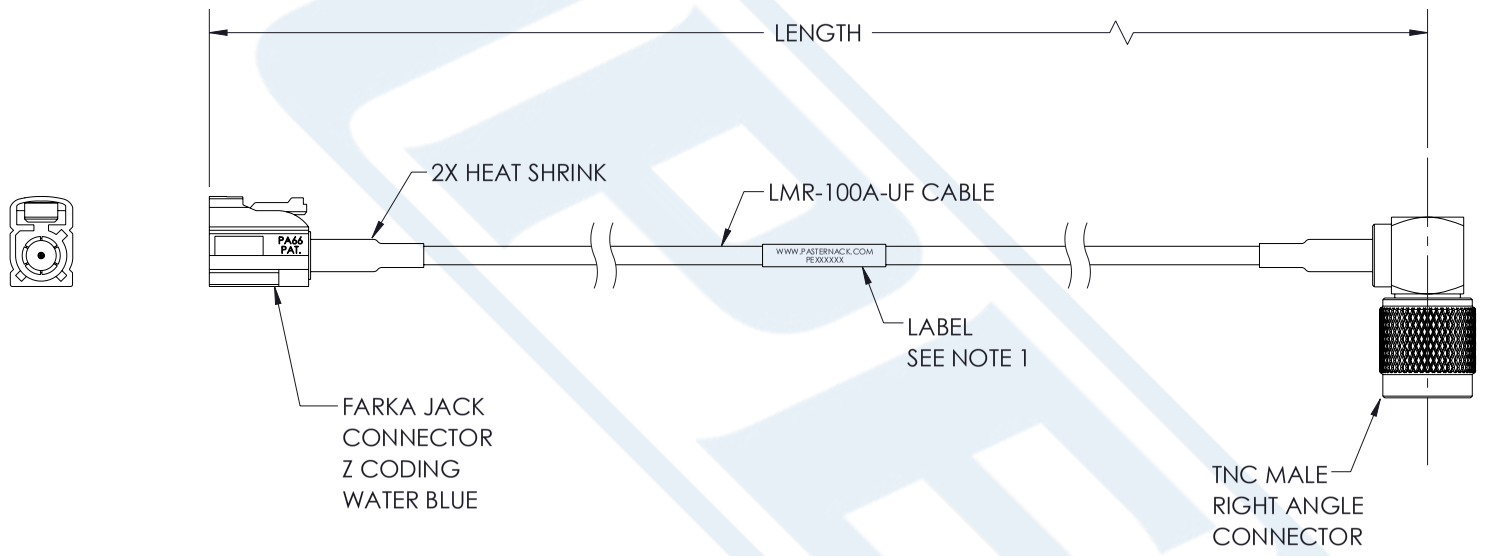
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| REVISION | | | | | |
|---|---|---|---|---|---|
| ZONE | REV. | DESCRIPTION | DATE | CHANGED BY | APPROVED BY |
| | A | INITIAL RELEASE | 12/14/2022 | | AGANWANI |




NOTES:

1. 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.
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY

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

TOLERANCES:

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

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.

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

| SCALE | SHEET |
|---|---|
| NONE | 1 OF 1 |

DESCRIPTION: Water Blue FAKRA Jack to TNC Male Right Angle Low Loss Cable Using LMR-100A-UF Coax with HeatShrink

| SIZE | CAGE CODE | DRAWN BY | ITEM NO. | REV |
|---|---|---|---|---|
| A | 53919 | BPUCHASKI | PE3W13530/HS | A |

T-Rev.D

PE3W13530/HS REV C

# PE3W13530/HS CAD Drawing

Water Blue FAKRA Jack to TNC Male Right Angle Low Loss Cable Using LMR-100A-UF Coax with HeatShrink