PASTERNACK
an INFINITE brand

TNC Male Right Angle to TNC Male Right Angle Low Loss Cable Using LMR-195 Coax with HeatShrink

Configuration

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

Features

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 80% Phase Velocity
- Double Shielded
- PE Jacket

LMR-195

JACKET
SHIELD
OUTER CONDUCTOR
DIELECTRIC
SOLID CENTER CONDUCTOR

0.195 Ø [4.9]
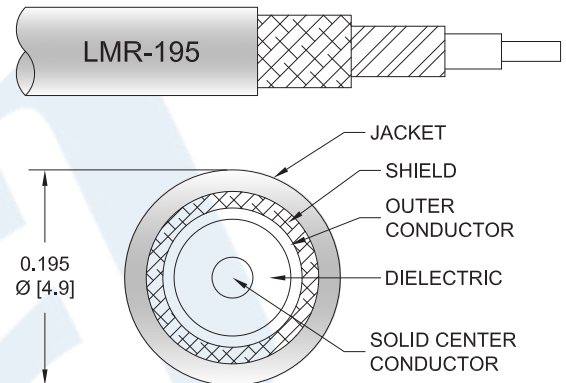
Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C1874/HS 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 PE3C1874/HS TNC male to TNC male cable assembly operates to 5.8 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 with HeatShrink PE3C1874/HS

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com

© 2020 Pasternack Enterprises All Rights Reserved   PE3C1874/HS REV 1.0   1

PASTERNACK
an INFINITE brand

TNC Male Right Angle to TNC Male Right Angle Low Loss Cable Using LMR-195 Coax with HeatShrink

TECHNICAL DATA SHEET	PE3C1874/HS

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	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]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		4.9 [16.08]		Ω/1000ft [Ω/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	
PE3C1874/HS	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	
PE3C1874/HS-12	12 inch	Insertion Loss (Typ.)	0.44	0.46	0.49	0.52	0.61	dB	0.146
PE3C1874/HS-24	24 inch	Insertion Loss (Typ.)	0.47	0.52	0.57	0.64	0.82	dB	0.169
PE3C1874/HS-36	36 inch	Insertion Loss (Typ.)	0.51	0.58	0.65	0.75	1.02	dB	0.191
PE3C1874/HS-48	48 inch	Insertion Loss (Typ.)	0.54	0.63	0.73	0.87	1.23	dB	0.213
PE3C1874/HS-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

Electrical Specification Notes:
Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB per connector.

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 with HeatShrink PE3C1874/HS

PASTERNACK
an INFINITe brand

TNC Male Right Angle to TNC Male Right Angle Low Loss Cable Using LMR-195 Coax with HeatShrink

TECHNICAL DATA SHEET	PE3C1874/HS

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 with HeatShrink PE3C1874/HS

TNC Male Right Angle to TNC Male Right Angle Low Loss Cable Using LMR-195 Coax with HeatShrink

TECHNICAL DATA SHEET	PE3C1874/HS

How to Order

Part Number Configuration: **PE3C1874/HS**   **- xx**   **uu**

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

Example: PE3C1874/HS-12 = 12 inches long cable
            PE3C1874/HS-100cm = 100 cm long cable

TNC Male Right Angle to TNC Male Right Angle Low Loss Cable Using LMR-195 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.
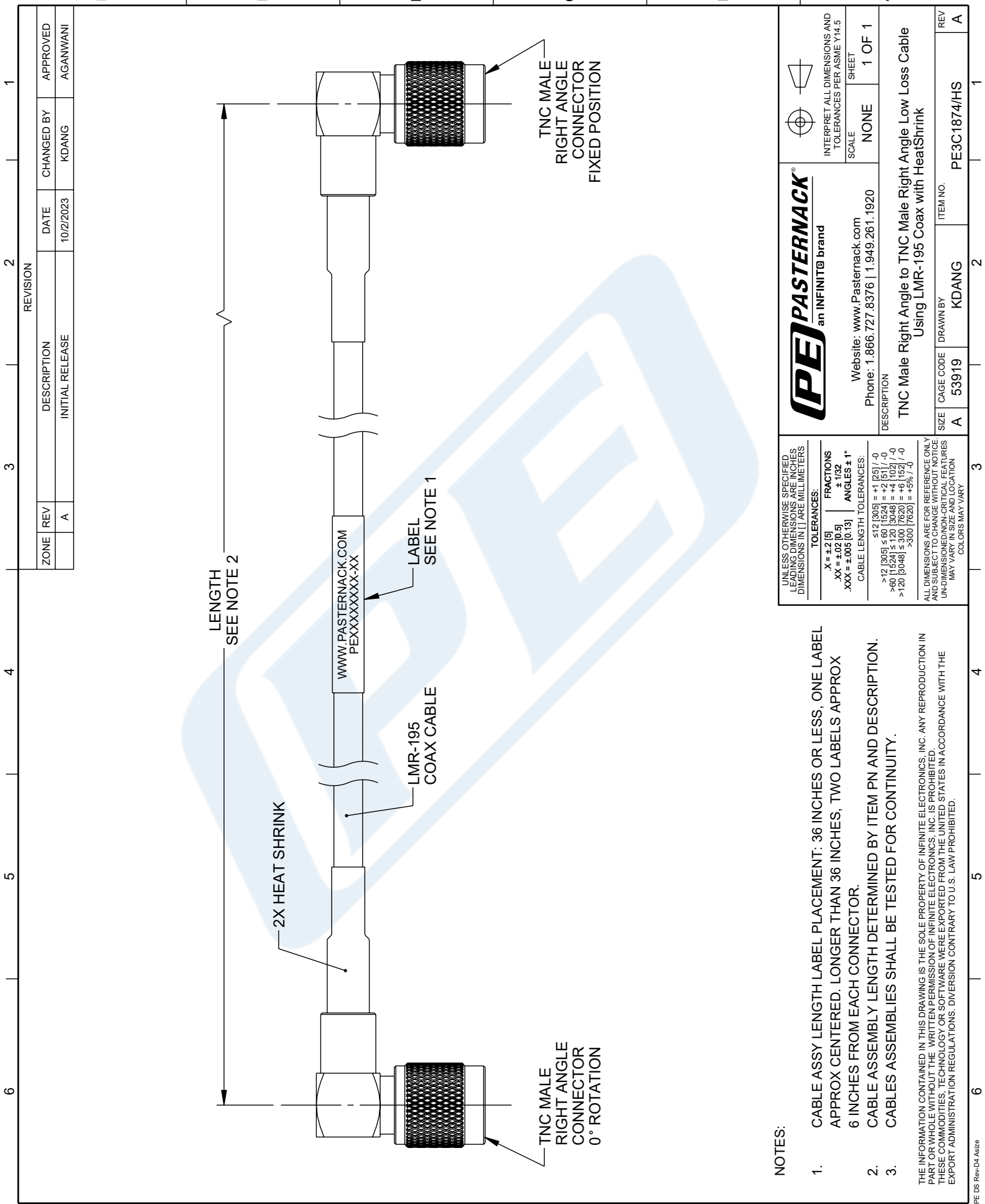
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: TNC Male Right Angle to TNC Male Right Angle Low Loss Cable Using LMR-195 Coax with HeatShrink PE3C1874/HS

URL: https://www.pasternack.com/tnc-male-right-angle-to-tnc-male-low-loss-cable-using-lmr-195-with-heatshrink-pe3c1874-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.

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

© 2020 Pasternack Enterprises All Rights Reserved   PE3C1874/HS REV 1.0   4

TNC MALE RIGHT ANGLE CONNECTOR FIXED POSITION

LENGTH SEE NOTE 2

LABEL SEE NOTE 1

WWW.PASTERNACK.COM
PEXXXXXXX-XX

LMR-195 COAX CABLE

2X HEAT SHRINK

TNC MALE RIGHT ANGLE CONNECTOR 0° ROTATION

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.

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED.
THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

REVISION					
ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	10/2/2023	KDANG	AGANWANI

Website: www.Pasternack.com
Phone: 1.866.727.8376 | 1.949.261.1920

PE PASTERNACK®
an INFINITE brand

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

TOLERANCES:
.X = ± .02 [5]	FRACTIONS ± 1/32
.XX = ±.02 [0.5]	ANGLES ± 1°
.XXX = ±.005 [0.13]	

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 UN-DIMENSIONED/NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION COLORS MAY VARY

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE	SHEET
NONE	1 OF 1

DESCRIPTION
TNC Male Right Angle to TNC Male Right Angle Low Loss Cable Using LMR-195 Coax with HeatShrink

SIZE A	CAGE CODE 53919	DRAWN BY KDANG	ITEM NO. PE3C1874/HS	REV A

PE3C1874/HS

PE DS Rev-D4 Asize

PE3C1874/HS REV 1.0

5