

N Male Right Angle to N Male Right Angle Low Loss Cable Using LMR-195 Coax With Times Microwave Components with HeatShrink, LF Solder



RF Cable Assemblies Technical Data Sheet

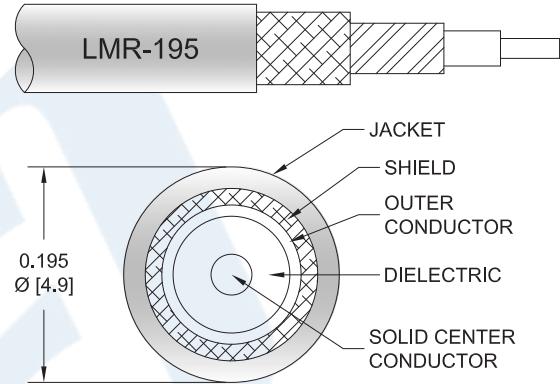
PE3C0119LF/HS

Configuration

- Connector 1: N Male Right Angle
- Connector 2: N Male Right Angle
- Cable Type: LMR-195

Features

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



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C0119LF/HS type N male right angle to type N 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 type N to type N cable assembly has a male to male gender configuration with 50 ohm flexible LMR-195 coax. The PE3C0119LF/HS type N male to type N male cable assembly operates to 5.8 GHz. The right angle type N 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: [N Male Right Angle to N Male Right Angle Low Loss Cable Using LMR-195 Coax With Times Microwave Components with HeatShrink, LF Solder PE3C0119LF/HS](#)



N Male Right Angle to N Male Right Angle Low Loss Cable Using LMR-195 Coax With Times Microwave Components with HeatShrink, LF Solder

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PE3C0119LF/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

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.057	0.081	0.116	0.19	0.299	dB/ft
	0.19	0.27	0.38	0.62	0.98	dB/m

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 0.209 lbs [94.8 g]

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]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Right Angle to N Male Right Angle Low Loss Cable Using LMR-195 Coax With Times Microwave Components with HeatShrink, LF Solder PE3C0119LF/HS](#)



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PE3C0119LF/HS

Repeated Minimum Bend Radius
Bending Moment
Flat Plate Crush
Tensile Strength

2 in [50.8 mm]
0.2 lbs-ft [0.27 N-m]
15 lbs/in [0.27 Kg/mm]
40 lbs [18.14 Kg]

Connectors

Description	Connector 1	Connector 2
Type	N Male Right Angle	N Male Right Angle
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	500
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50 μ in. minimum	50 μ in. minimum
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	80 μ in. minimum	80 μ in. minimum
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	80 μ in. minimum	80 μ in. minimum

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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N Male Right Angle to N Male Right Angle Low Loss
Cable Using LMR-195 Coax With Times Microwave
Components with HeatShrink, LF Solder



RF Cable Assemblies Technical Data Sheet

PE3C0119LF/HS

How to Order

Part Number Configuration:

PE3C0119LF/HS - xx

uu

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

Example: PE3C0119LF/HS-12 = 12 inches long cable
PE3C0119LF/HS-100cm = 100 cm long cable

N Male Right Angle to N Male Right Angle Low Loss Cable Using LMR-195 Coax With Times Microwave Components 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 Right Angle to N Male Right Angle Low Loss Cable Using LMR-195 Coax With Times Microwave Components with HeatShrink, LF Solder PE3C0119LF/HS](#)

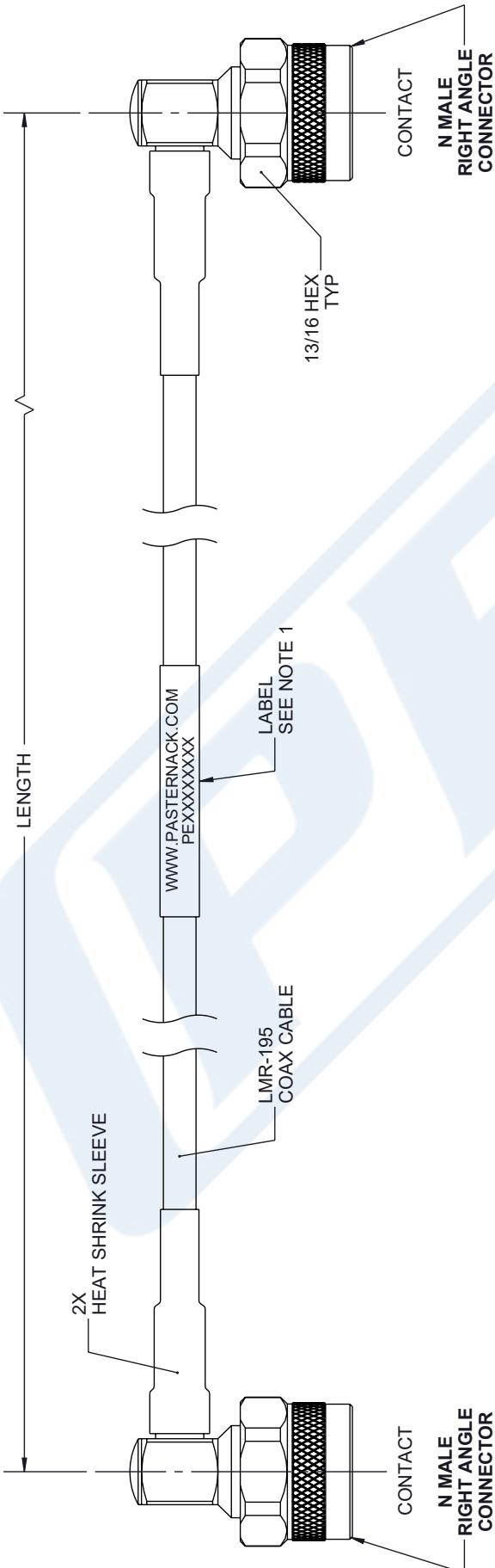
URL: <https://www.pasternack.com/n-male-right-angle-to-n-male-low-loss-cable-using-lmr-195-with-heatshrink-lf-solder-pe3c0119lf-hs-p.aspx>

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.

PE3C0119LF/HS CAD Drawing

N Male Right Angle to N Male Right Angle Low Loss Cable Using LMR-195 Coax With Times Microwave Components with HeatShrink, LF Solder

ZONE REV. DESCRIPTION DATE APPROVED BY
A INITIAL RELEASE 01/27/2023 AGANWANI



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. CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY

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 <p>PASTERNACK® an INFINITI® brand</p>		<p>LESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES IN [] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <table border="1"> <tr> <td>$\pm = \pm .2$</td><td>$[.5]$</td><td>FRACTIONS</td></tr> <tr> <td>$\pm = \pm .005$</td><td>$[.13]$</td><td>ANGLES $\pm 1^\circ$</td></tr> </table> <p>USEABLE LENGTH TOLERANCES:</p>		$\pm = \pm .2$	$[.5]$	FRACTIONS	$\pm = \pm .005$	$[.13]$	ANGLES $\pm 1^\circ$	<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p> <p>SCALE SHEET</p>	
$\pm = \pm .2$	$[.5]$	FRACTIONS									
$\pm = \pm .005$	$[.13]$	ANGLES $\pm 1^\circ$									
<p>DESCRIPTION</p> <p>N Male Right Angle to N Male Right Angle Low Loss Cable Using LMR-195 Coax with HeatShrink, LF Solder With Times Microwave Components</p>		<p>Website: www.pasternack.com Phone: 1.866.727.8376 1.949.261.1920</p>		<p>ITEM NO.</p> <p>PE3C0119LF/HS</p>							
<p>SIZE</p> <p>A</p>		<p>CAGE CODE</p> <p>KDANG</p>		<p>REV</p> <p>A</p>							
<p>NOTES:</p> <p>1. DIMENSIONS ARE FOR REFERENCE ONLY 2. TOLERANCES ARE SUBJECT TO CHANGE WITHOUT NOTICE</p>		<p>NOTES:</p> <p>1. DIMENSIONS ARE FOR REFERENCE ONLY 2. TOLERANCES ARE SUBJECT TO CHANGE WITHOUT NOTICE</p>		<p>NOTES:</p> <p>1. DIMENSIONS ARE FOR REFERENCE ONLY 2. TOLERANCES ARE SUBJECT TO CHANGE WITHOUT NOTICE</p>							