



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

TECHNICAL DATA SHEET

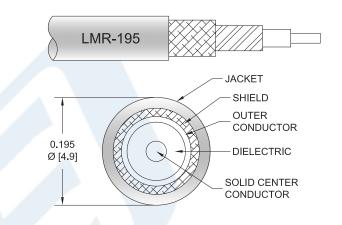
PE3C0119LF

Configuration

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

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 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 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, LF Solder PE3C0119LF

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





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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR		JAN.	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]	100	Ω/1000ft [Ω/Km]
Jacket Spark			3,000	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
Part Number Length	Frequency	250	500	1000	2500	5800	MHz	weight (ibs)	
PE3C0119LF	Custom Lengths	Insertion Loss (Typ.)	0.06	0.08	0.12	0.19	0.3	dB/ft	
1 230011321	Available	1113C1 (1011 L033 (1 yp.)	0.19	0.27	0.39	0.63	0.99	dB/m	
PE3C0119LF-12	12 inch	Insertion Loss (Typ.)	0.46	0.49	0.52	0.59	0.7	dB	0.208
PE3C0119LF-24	24 inch	Insertion Loss (Typ.)	0.52	0.57	0.64	0.78	1	dB	0.231
PE3C0119LF-36	36 inch	Insertion Loss (Typ.)	0.58	0.65	0.75	0.97	1.3	dB	0.253
PE3C0119LF-48	48 inch	Insertion Loss (Typ.)	0.63	0.73	0.87	1.16	1.6	dB	0.275
PE3C0119LF-60	60 inch	Insertion Loss (Typ.)	0.69	0.81	0.98	1.35	1.9	dB	0.297

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: 0.208 pounds
Additional Weight per Inch: 0.00184 pounds

Mechanical Specifications

Cable Assembly

Weight 0.208 lbs [94.35 g]

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Cable

Cable Type Impedance

Inner Conductor Type

Inner Conductor Material and Plating

Dielectric Type Number of Shields

Shield Layer 1

Shield Layer 2 Jacket Material

Jacket Diameter

One Time Minimum Bend Radius

Repeated Minimum Bend Radius

Bending Moment Flat Plate Crush

Tensile Strength

LMR-195

50 Ohms

Solid

Copper

PE(F)

Aluminum Tape

Tinned Copper Braid

PE, Black

0.195 in [4.95 mm]

0.5 in [12.7 mm]

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 N Male Right Angle Threaded			
Туре	N Male Right Angle Threaded				
Impedance	50 Ohms	50 Ohms			
Mating Cycles	500	500			
Contact Material and Plating	Brass, Gold	Brass, Gold			
Contact Plating Specification	50μ in. minimum	50μ in. minimum			
Dielectric Type	Teflon	Teflon			
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal			
Body Plating Specification	80μ in. minimum	80μ in. minimum			
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal			
Coupling Nut Plating Specification	80μ in. minimum	80µ 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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How to Order



Example: PE3C0119LF-12 = 12 inches long cable PE3C0119LF-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, 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/n-male-right-angle-to-n-male-low-loss-cable-using-lmr-195-lf-solder-pe3c0119lf-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.

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PE3C0119LF CAD Drawing N Male Right Angle to N Male Right Angle Low Loss Cable Using LMR-195 Coax with Times Microwave Components, LF Solder ш ⋖ INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 ⋖ APPROVED AGANWANI N Male Right Angle to N Male Right Angle Low Loss Cable Using LMR-195 Coax with Times Microwave Components, LF Solder 1 PF PE3C0119LF NONE \bigoplus CHANGED BY CONNECTOR RIGHT ANGLE FIXED POSITION KDANG N MALE PASTERNACK ITEM NO. Website: www.Pasternack.com Phone: 1.866.727.8376 | 1.949.261.1920 10/10/2023 DATE an INFINIT® brand α **KDANG** REVISION DRAWN BY INITIAL RELEASE DESCRIPTION CAGE CODE 53919 DESCRIPTION SIZE ⋖ 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 ± 1/32 ANGLES ± 1° UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILL IMETERS FRACTIONS CABLE LENGTH TOLERANCES: <12 [305] < +1 [25] />12 [305] < 60 [1524] = +2 [51] />60 [1524] < 120 [3048] = +4 [102] />120 [3048] < 3300 [7620] = +6 [152] />3300 [7620] = +6 [152] /-က LABEL SEE NOTE 1 TOLERANCES REV ⋖ $X = \pm .2$ [5] $XX = \pm .02$ [0.5] $XXX = \pm .005$ [0.13] ZONE WWW.PASTERNACK.COM PEXXXXXXXX-XX SEE NOTE 2 LENGTH CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PRAT OR WINDLE WITHOUT THE WITHEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITES, TECHNOLICGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAWP PROHIBITED. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION APPROX CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROX -LMR-195 COAX CABLE CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY. 2X HEAT SHRINK 2X 13/16 HEX 2 6 INCHES FROM EACH CONNECTOR. RIGHT ANGLE 0° ROTATION CONNECTOR N MALE 9 NOTES PE DS Rev-D4 Asize 0, ε

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