



N Male to N Male Low Loss Cable Using LMR-195 Coax with Times Microwave Components with HeatShrink

TECHNICAL DATA SHEET

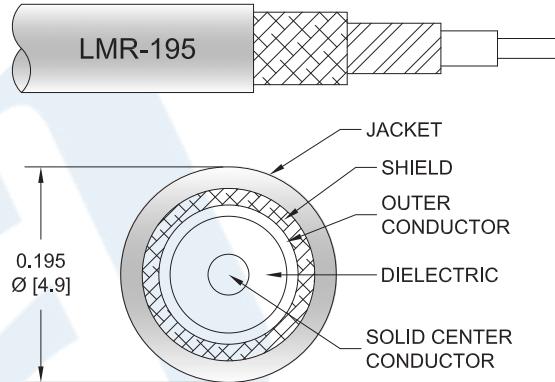
PE3C0118/HS

Configuration

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

Features

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 80% Phase Velocity
- Double Shielded
- PE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C0118/HS type N male to type N male 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 PE3C0118/HS type N male to type N male cable assembly operates to 6 GHz. 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 to N Male Low Loss Cable Using LMR-195 Coax with Times Microwave Components with HeatShrink PE3C0118/HS](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	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	250	500	1000	2500	6000	MHz	
PE3C0118/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.06	0.08	0.12	0.19	0.3	dB/ft	
			0.19	0.27	0.39	0.63	0.99	dB/m	
PE3C0118/HS-12	12 inch	Insertion Loss (Typ.)	0.26	0.29	0.32	0.39	0.5	dB	0.19
PE3C0118/HS-24	24 inch	Insertion Loss (Typ.)	0.32	0.37	0.44	0.58	0.8	dB	0.213
PE3C0118/HS-36	36 inch	Insertion Loss (Typ.)	0.38	0.45	0.56	0.77	1.1	dB	0.235
PE3C0118/HS-48	48 inch	Insertion Loss (Typ.)	0.43	0.53	0.67	0.96	1.4	dB	0.257
PE3C0118/HS-60	60 inch	Insertion Loss (Typ.)	0.49	0.61	0.79	1.15	1.7	dB	0.279

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: 0.1 dB
Loss due to Connector 2: 0.1 dB
Base Weight: 0.19 pounds
Additional Weight per Inch: 0.00184 pounds

Mechanical Specifications

Cable Assembly

Weight 0.19 lbs [86.18 g]

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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	N Male Threaded	N Male Threaded
Specification	MIL-STD-348	MIL-STD-348
Impedance	50 Ohms	50 Ohms
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
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Hex Size	13/16 Inch	13/16 Inch

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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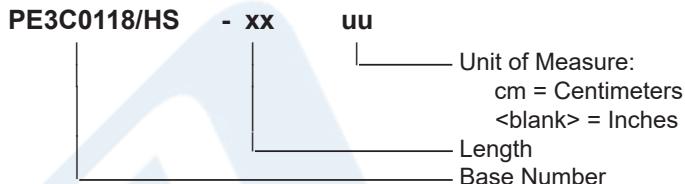
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PE3C0118/HS

How to Order

Part Number Configuration:



Example: PE3C0118/HS-12 = 12 inches long cable
PE3C0118/HS-100cm = 100 cm long cable

N Male to N Male Low Loss Cable Using LMR-195 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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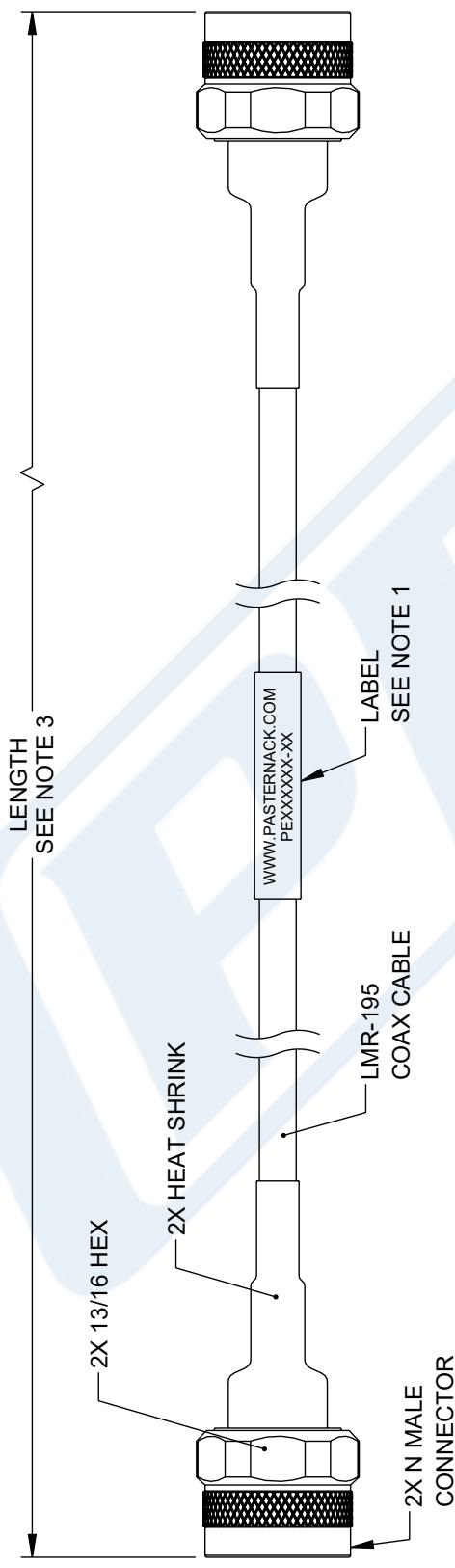
URL: <https://www.pasternack.com/n-male-to-n-male-low-loss-cable-using-lmr-195-with-heatshrink-pe3c0118-hs-p.aspx>

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PE3C0118/HS CAD Drawing

N Male to N Male Low Loss Cable Using LMR-195 Coax with Times Microwave Components with HeatShrink

ZONE	REV	DESCRIPTION	REVISION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE		10/13/2023	KGLEBOVA	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.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND
DESCRIPTION

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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS TOLERANCES:		FRACTIONS $XX = \pm 0.2 [5]$ $\pm 1/32$ $XX = \pm .005 [0.13]$ ANGLES $\pm 1^\circ$ CABLE LENGTH TOLERANCES: $\leq 12 [305] = \pm 1[25] - 0$ $> 12 [305] \leq 60 [1524] = +2 [51] - 0$ $> 60 [1524] \leq 120 [3048] = +4 [102] - 0$ $> 120 [3048] \leq 300 [7620] = +6 [152] - 0$ $> 300 [7620] = +8 [203] - 0$	
		Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920	DESCRIPTION N MALE TO N MALE LOW LOSS CABLE USING LMR-195 COAX N MALE TO N MALE MICROWAVE COMPONENTS WITH HEATSHRINK
SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	KGLEBOVA	PE3C0118/HS
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