



N Male to N Male Cable Using PE-SR402FL Coax

TECHNICAL DATA SHEET

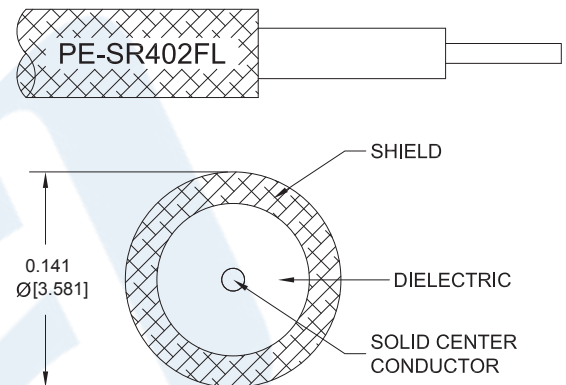
PE3C4194

Configuration

- Connector 1: N Male
- Connector 2: N Male
- Cable Type: PE-SR402FL
- Coax Flex Type: Formable

Features

- Max Frequency 6 GHz
- Shielding Effectivity > 110 dB
- 69.5% Phase Velocity



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C4194 type N male to type N male cable using PE-SR402FL coax is part of our full line of RF components available for same-day shipping. Pasternack's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. This Pasternack type N to type N cable assembly has a male to male gender configuration with 50 ohm formable PE-SR402FL coax. The PE3C4194 type N male to type N male cable assembly operates to 6 GHz.

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 Cable Using PE-SR402FL Coax PE3C4194](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
RF Shielding	110			dB
Capacitance		29 [95.14]		pF/ft [pF/m]
DC Resistance Inner Conductor		7.8 [25.59]		Ω /1000ft [Ω /Km]
DC Resistance Outer Conductor		5.5 [18.04]		Ω /1000ft [Ω /Km]

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency	500	1000	2500	6000	0	
PE3C4194	Custom Lengths Available	Insertion Loss (Typ.)	0.08	0.12	0.18	0.32	0	dB/ft	
			0.27	0.4	0.6	1.05	0	dB/m	
PE3C4194-6	6 inch	Insertion Loss (Typ.)	0.24	0.26	0.29	0.36	0	dB	0.141
PE3C4194-9	9 inch	Insertion Loss (Typ.)	0.26	0.29	0.34	0.44	0	dB	0.147
PE3C4194-12	12 inch	Insertion Loss (Typ.)	0.28	0.32	0.38	0.52	0	dB	0.153
PE3C4194-18	18 inch	Insertion Loss (Typ.)	0.32	0.38	0.47	0.68	0	dB	0.166
PE3C4194-24	24 inch	Insertion Loss (Typ.)	0.36	0.44	0.56	0.84	0	dB	0.179

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:	0.153 pounds
Additional Weight per Inch:	0.00209 pounds

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Weight	0.153 lbs [69.4 g]
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Cable

Cable Type	PE-SR402FL
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Number of Shields	1
Shield Layer 1	Tinned Copper Braid

Repeated Minimum Bend Radius 0.625 in [15.88 mm]

Connectors

Description	Connector 1	Connector 2
Type	N Male Threaded	N Male Threaded
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Silver	Brass, Silver
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Silver	Brass, Silver
Hex Size	3/4 inch	3/4 inch

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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N Male to N Male Cable Using PE-SR402FL Coax

TECHNICAL DATA SHEET

PE3C4194

How to Order

Part Number Configuration:

PE3C4194

- **xx**

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C4194-12 = 12 inches long cable
PE3C4194-100cm = 100 cm long cable

N Male to N Male Cable Using PE-SR402FL Coax 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 to N Male Cable Using PE-SR402FL Coax PE3C4194](#)

URL: <https://www.pasternack.com/n-male-n-male-pe-sr402fl-cable-assembly-pe3c4194-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.

PE3C4194 CAD Drawing

N Male to N Male Cable Using PE-SR402FL Coax

F E D C B A

1

2

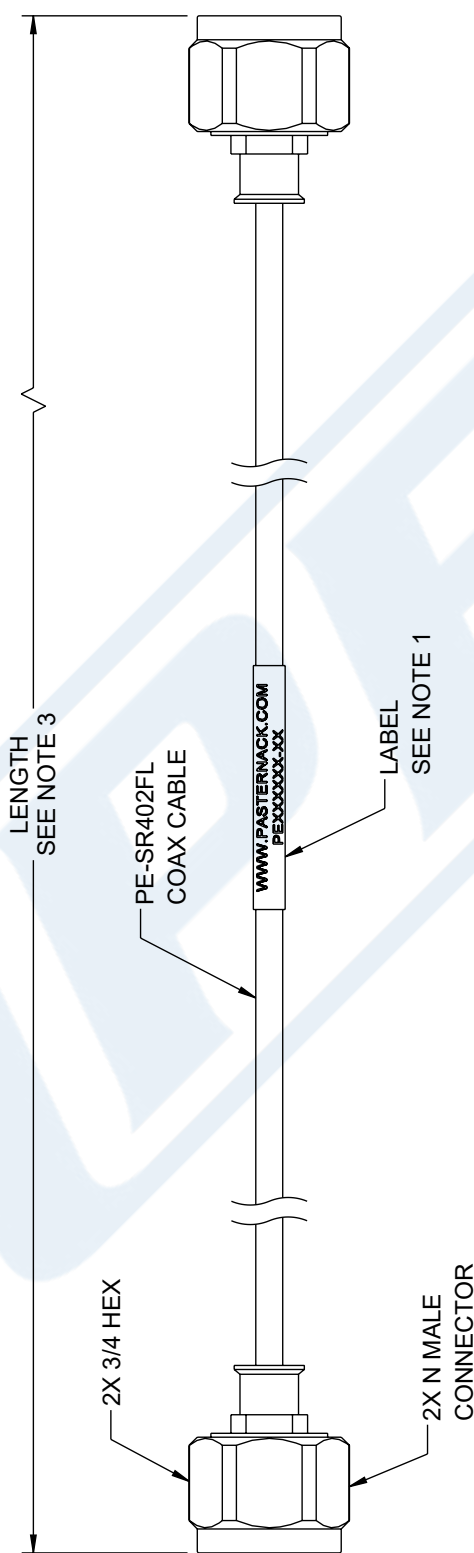
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4

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REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV	DESCRIPTION		
	A	INITIAL RELEASE	HBAKKE	AGANWANI
			10/17/2023	



NOTES:

- 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.
- CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
- CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES. DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS.	TOLERANCES: X = ±.2 [5] XX = ±.02 [0.5] XXX = ±.005 [0.13]	FRACTIONS ±.1/32 ANGLES ± 1°
CABLE LENGTH TOLERANCES: ≤ 12 [305] = ±.1 [2.5] / -0 ≤ 60 [1524] = ±.2 [5.0] / -0 ≤ 120 [3048] = ±.4 [10.2] / -0 ≤ 300 [7620] = ±.6 [15.2] / -0 > 300 [7620] = ±.9% / -0	ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.	



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

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	SHEET
SCALE	NONE
	1 OF 1

DESCRIPTION
N MALE TO N MALE CABLE USING PE-SR402FL COAX

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	HBAKKE	PE3C4194	A

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