

N Male to N Male Right Angle Cable Using PE-SR402FL Coax with HeatShrink



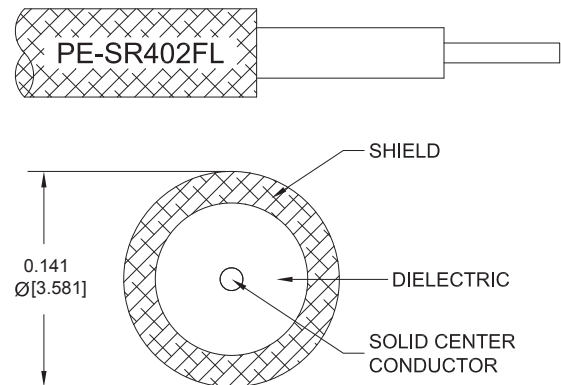
PE3W17431/HS

Configuration

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

Features

- Max Frequency 4 GHz
- Shielding Effectivity > 110 dB
- 69.5% Phase Velocity



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W17431/HS type N male to type N male right angle 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 PE3W17431/HS type N male to type N male cable assembly operates to 4 GHz. The right angle type N interface on the PE-SR402FL cable allows for easier connections in tight spaces.

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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	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]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		5.5 [18.04]		Ohms/1000ft [Ohms/Km]

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	Units	Weight (lbs)
			Frequency	500	1000	4000	
PE3W17431/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.08	0.12	0.248	dB/ft	
			0.27	0.4	0.82	dB/m	
PE3W17431/HS-6	6 In	Insertion Loss (Typ.)	0.34	0.36	0.43	dB	0.168
PE3W17431/HS-9	9 In	Insertion Loss (Typ.)	0.36	0.39	0.49	dB	0.174
PE3W17431/HS-12	12 In	Insertion Loss (Typ.)	0.38	0.42	0.55	dB	0.18
PE3W17431/HS-18	18 In	Insertion Loss (Typ.)	0.42	0.48	0.68	dB	0.193
PE3W17431/HS-24	24 In	Insertion Loss (Typ.)	0.46	0.54	0.8	dB	0.206

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: 0.2 dB
 Base Weight: 0.18 pounds
 Additional Weight per Inch: 0.00209 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
 Weight 0.155 lbs [70.31 g]

Cable

Cable Type PE-SR402FL
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper, Silver
 Dielectric Type PTFE
 Outer Conductor 1 Material and Plating Tinned Copper Braid
 Repeated Minimum Bend Radius 0.625 in [15.88 mm]

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Connectors

Description	Connector 1	Connector 2
Type	N Male	N Male Right Angle
Specification		MIL-STD-348
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Contact Material and Plating	Brass, Gold	Brass, Gold over Nickel
Contact Plating Specification	30μ in. minimum	MIL-G-45204
Dielectric Type	Teflon	PTFE
Body Material and Plating	Brass, Nickel	Brass, Gold over Nickel
Body Plating Specification	100μ in. minimum	MIL-G-45204
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	100μ in. minimum	QQ-N-290

Environmental Specifications

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

Plotted and Other Data

Notes:

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PE3W17431/HS

Typical Performance Data

How to Order

Part Number Configuration:

PE3W17431/HS - xx uu



Example: PE3W17431/HS-12 = 12 inches long cable
PE3W17431/HS-100cm = 100 cm long cable

N Male to N Male Right Angle Cable Using PE-SR402FL 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.

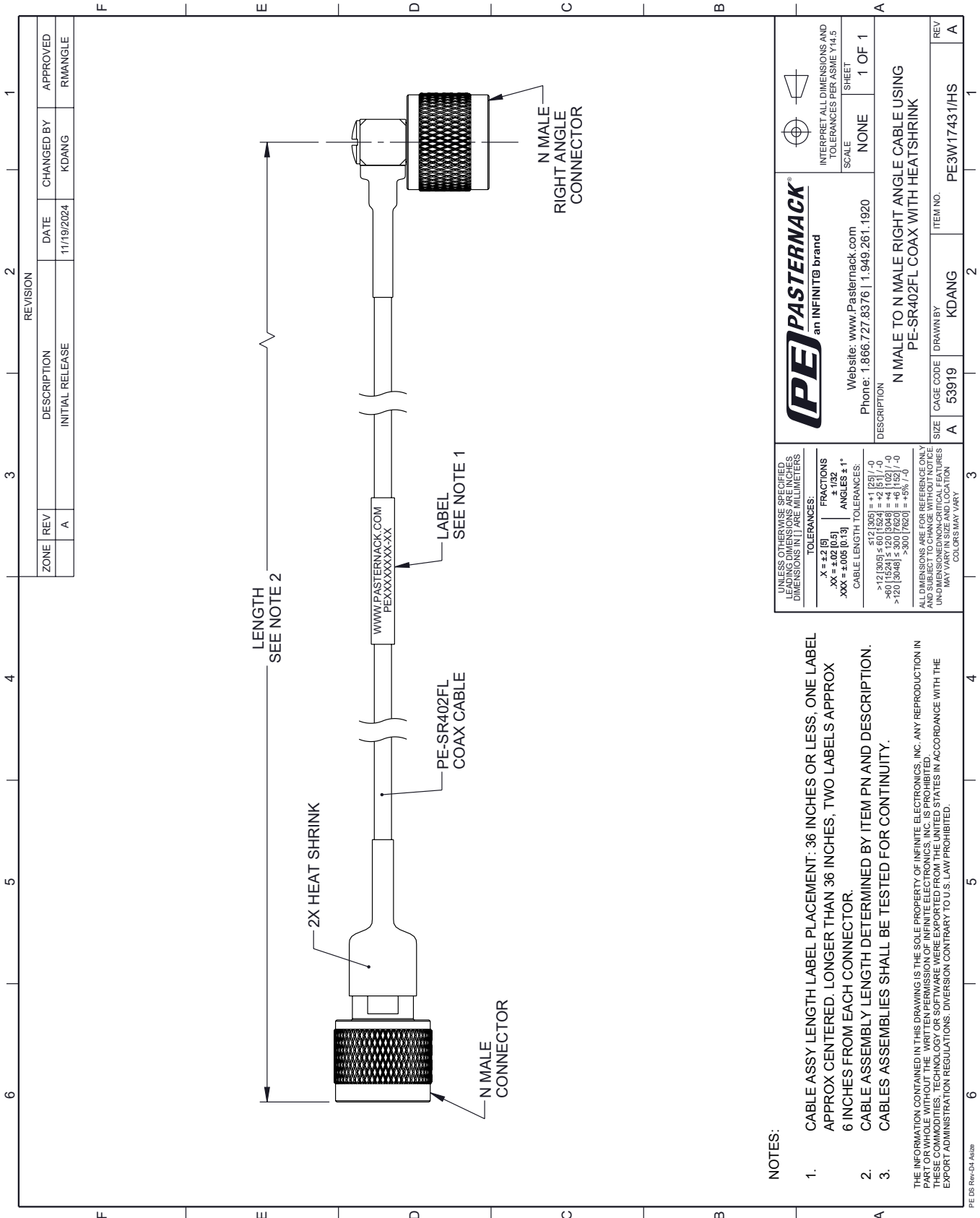
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male to N Male Right Angle Cable Using PE-SR402FL Coax with HeatShrink PE3W17431/HS](https://www.pasternack.com/n-male-to-n-male-cable-using-pe-sr402fl-with-heatshrink-pe3w17431-hs-p.aspx)

URL: <https://www.pasternack.com/n-male-to-n-male-cable-using-pe-sr402fl-with-heatshrink-pe3w17431-hs-p.aspx>

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PE3W17431/HS CAD Drawing

N Male to N Male Right Angle Cable Using PE-SR402FL Coax with HeatShrink



REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV	11/19/2024	KDANG	RMANGLE
	A			
DESCRIPTION				
INITIAL RELEASE				

NOTES:

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

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UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES:	
.X = ±.2 [5]	FRACTIONS ± 1/32
.XX = ±.02 [0.5]	ANGLES ± 1°
.XXX = ±.005 [0.13]	
CABLE LENGTH TOLERANCES:	
<12 [305]	±.12 [3.05]
>12 [305] < 60 [1524]	±.25 [6.35]
>60 [1524] < 120 [3048]	±.5 [12.7]
>120 [3048]	±1.0 [25.4]
>300 [7620]	±.5% [1.27]
ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.	

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

DESCRIPTION		ITEM NO.	
N MALE TO N MALE RIGHT ANGLE CABLE USING PE-SR402FL COAX WITH HEATSHRINK		PE3W17431/HS	
SIZE	CAGE CODE	DRAWN BY	REV
A	53919	KDANG	A