



N Female Bulkhead to SMA Male Right Angle Low Loss Cable Using PE-P195 Coax with HeatShrink

RF Cable Assemblies Technical Data Sheet

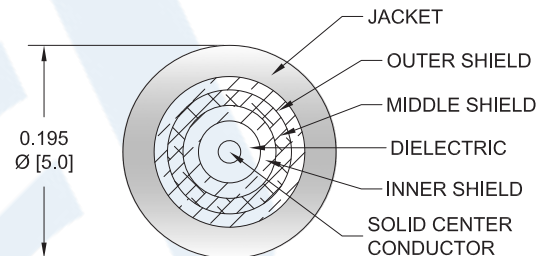
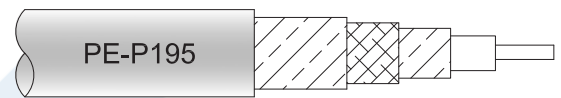
PE3W06405/HS

Configuration

- Connector 1: N Female Bulkhead
- Connector 2: SMA Male Right Angle
- Cable Type: PE-P195

Features

- Max Frequency 6 GHz
- 70% Phase Velocity
- Triple Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W06405/HS type N female bulkhead to SMA male right angle cable using PE-P195 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 SMA cable assembly has a female to male gender configuration with 50 ohm flexible PE-P195 coax. The PE3W06405/HS type N female to SMA male cable assembly operates to 6 GHz. The right angle SMA interface on the PE-P195 cable allows for easier connections in tight spaces. Our RF cable assembly with type N bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. The triple shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

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 Female Bulkhead to SMA Male Right Angle Low Loss Cable Using PE-P195 Coax with HeatShrink PE3W06405/HS](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
Capacitance		29 [95.14]		pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	6	GHz
Insertion Loss (Typ.)	0.057	0.088	0.125	0.196	0.342	dB/ft
	0.19	0.29	0.41	0.64	1.12	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the N Female straight connector and 0.2 dB for the SMA Male right angle connector.

Mechanical Specifications

Cable Assembly

Weight 0.137 lbs [62.14 g]

Cable

Cable Type PE-P195
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper Clad Steel, Silver
 Dielectric Type PTFE
 Number of Shields 3
 Shield Layer 1 Silver Plated Copper Braid
 Shield Layer 2 Aluminum Tape
 Shield Layer 3 Silver Plated Copper Braid
 Jacket Material FEP, Tan
 Jacket Diameter 0.195 in [4.95 mm]
 Repeated Minimum Bend Radius 1 in [25.4 mm]

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Connectors

Description	Connector 1	Connector 2
Type	N Female Bulkhead	SMA Male Right Angle
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 µin minimum	50 µin minimum
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Brass, Nickel	
Outer Conductor Plating Specification	100 µin minimum	
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	100 µin minimum
Coupling Nut Material and Plating		Brass, Nickel
Coupling Nut Plating Specification		100 µin minimum
Hex Size		5/16 inch
Torque		3 in-lbs [0.34 Nm]

Environmental Specifications

Temperature

Operating Range -55 to +165 deg C

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

Plotted and Other Data

Notes:

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PE3W06405/HS

How to Order

Part Number Configuration:

PE3W06405/HS - xx uu

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

Example: PE3W06405/HS-12 = 12 inches long cable
 PE3W06405/HS-100cm = 100 cm long cable

N Female Bulkhead to SMA Male Right Angle Low Loss Cable Using PE-P195 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.

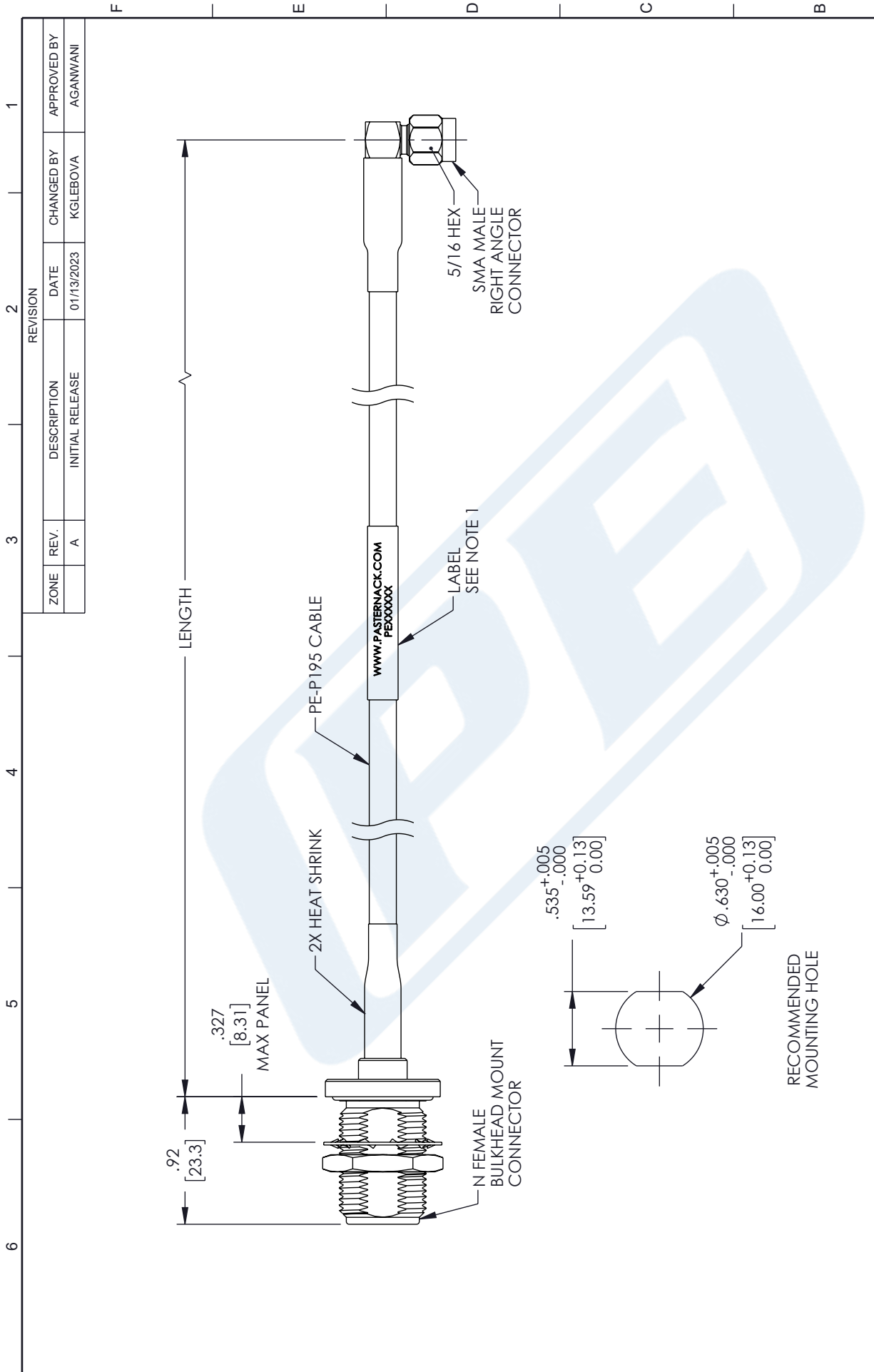
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URL: <https://www.pasternack.com/n-female-bulkhead-to-sma-male-low-loss-cable-using-pe-p195-with-heatshrink-pe3w06405-hs-p.aspx>

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.

PE3W06405/HS CAD Drawing

N Female Bulkhead to SMA Male Right Angle Low Loss Cable Using PE-P195 Coax with HeatShrink



PASTERNAK an INFINITO brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1	
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		DESCRIPTION: N FEMALE BULKHEAD TO SMA MALE RIGHT ANGLE LOW LOSS CABLE USING PE-P195 COAX WITH HEATSHRINK	
SIZE: A	CAGE CODE: 53919	DRAWN BY: KGLEBOVA	ITEM NO.: PE3W06405/HS
UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS TOLERANCES: .X = ±.2 [5] .XX = ±.02 [-.5] .XXX = ±.005 [-.13]		FRACTIONS: ±.1/32 ANGLES: ± 1° CABLE LENGTH TOLERANCES: >12 [305] = +1 [25] / -0 >60 [1524] ≤ 60 [1524] = +2 [51] / -0 >60 [1524] ≤ 120 [3048] = +4 [102] / -0 >120 [3048] ≤ 300 [7620] = +6 [152] / -0 >300 [7620] = +5% / -0	
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.			

- 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.
 - CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
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