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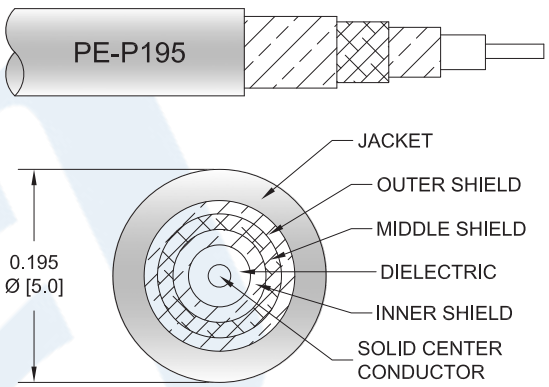


SMA Male Right Angle to N Male Right Angle Low Loss Cable 12 Inch Length Using PE-P195 Coax

RF Cable Assemblies Technical Data Sheet PE3W09919-12

Configuration

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



Features

- Max Frequency 12.4 GHz
- 70% Phase Velocity
- Triple Shielded
- FEP Jacket

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W09919-12 SMA male right angle to type N male right angle 12 inch 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 SMA to type N cable assembly has a male to male gender configuration with 50 ohm flexible PE-P195 coax. The PE3W09919-12 SMA male to type N male cable assembly operates to 12.4 GHz. The right angle SMA and right angle type N interfaces on the PE-P195 cable allow for easier connections in tight spaces. 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: SMA Male Right Angle to N Male Right Angle Low Loss Cable 12 Inch Length Using PE-P195 Coax PE3W09919-12

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12.4	GHz
VSWR			1.45:1	
Velocity of Propagation		70		%
Capacitance		29 [95.14]		pF/ft [pF/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2.5	5	12.4	GHz
Insertion Loss (Typ.)	0.49	0.53	0.6	0.72	0.91	dB

Electrical Specification Notes:
The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.2 dB per connector.

Mechanical Specifications

Cable Assembly

Length*	12 in [304.8 mm]
Diameter	0.71 in [18.03 mm]

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

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: SMA Male Right Angle to N Male Right Angle Low Loss Cable 12 Inch Length Using PE-P195 Coax PE3W09919-12

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RF Cable Assemblies Technical Data Sheet PE3W09919-12

How to Order

Part Number Configuration: **PE3W09919 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3W09919 — Base Number

Example: PE3W09919-12 = 12 inches long cable
PE3W09919-100cm = 100 cm long cable

SMA Male Right Angle to N Male Right Angle Low Loss Cable 12 Inch Length Using PE-P195 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: SMA Male Right Angle to N Male Right Angle Low Loss Cable 12 Inch Length Using PE-P195 Coax PE3W09919-12

URL: https://www.pasternack.com/sma-male-n-male-pe-p195-cable-assembly-pe3w09919-12-p.aspx

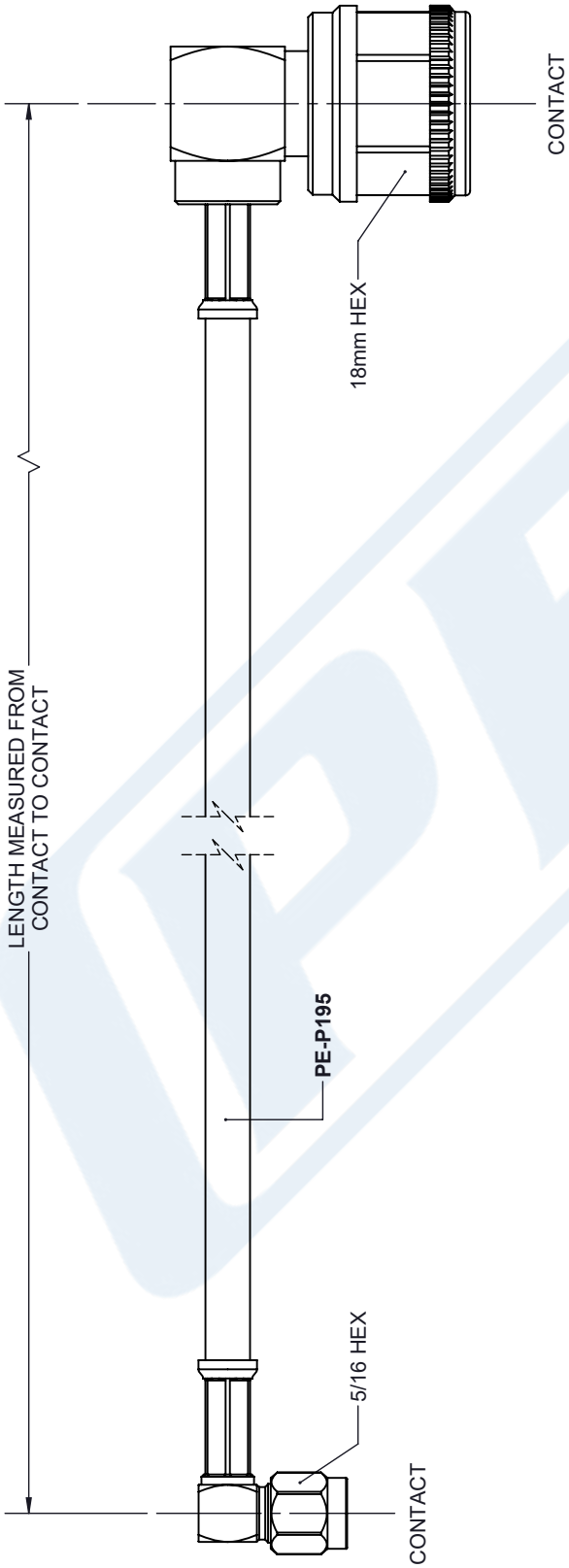
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PE3W09919-12 CAD Drawing

SMA Male Right Angle to N Male Right Angle Low Loss
Cable 12 Inch Length Using PE-P195 Coax



REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	10/16/2020	S.ELLIS

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1
SCALE N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	K.DANG	PE3W09919	A

UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

.X = ± .2 [5.08] | FRACTIONS ± 1/32
.XX = ± .02 [.51] | ANGLES ± 1°
.XXX = ± .005 [.13]

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5%L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

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