

SMA Male Right Angle to SSMA Male Cable Using RG316 Coax with HeatShrink

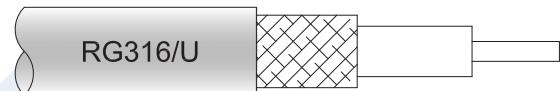


RF Cable Assemblies Technical Data Sheet

PE3W10248/HS

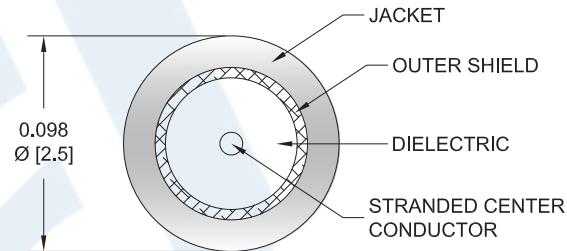
Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: SSMA Male
- Cable Type: RG316



Features

- Max Frequency 3 GHz
- 69% Phase Velocity
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W10248/HS SMA male right angle to SSMA male cable using RG316 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 SSMA cable assembly has a male to male gender configuration with 50 ohm flexible RG316 coax. The PE3W10248/HS SMA male to SSMA male cable assembly operates to 3 GHz. The right angle SMA interface on the RG316 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.

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 SSMA Male Cable Using RG316 Coax with HeatShrink PE3W10248/HS](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
Velocity of Propagation		69		%
Jacket Spark			2,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.11	0.16	0.238	0.38	0.58	dB/ft
	0.36	0.52	0.78	1.25	1.9	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 SSMA connector and 0.2 dB for the SMA connector.

Mechanical Specifications

Cable Assembly

Weight 0.032 lbs [14.51 g]

Cable

Cable Type RG316
 Impedance 50 Ohms
 Inner Conductor Type Stranded
 Inner Conductor Material and Plating Copper Clad Steel, Silver
 Dielectric Type PTFE
 Number of Shields 1
 Shield Layer 1 Silver Plated Copper Braid
 Jacket Material FEP, Tan
 Jacket Diameter 0.102 in [2.59 mm]

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PE3W10248/HS

Connectors

Description	Connector 1	Connector 2
Type	SMA Male Right Angle	SSMA Male
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Gold
Contact Plating Specification	50 μ in minimum	
Dielectric Type	PTFE	
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 μ in minimum	
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	100 μ in 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:

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RF Cable Assemblies Technical Data Sheet

PE3W10248/HS

How to Order

Part Number Configuration:

PE3W10248/HS - **xx** **uu**

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

Example: PE3W10248/HS-12 = 12 inches long cable
PE3W10248/HS-100cm = 100 cm long cable

SMA Male Right Angle to SSMA Male Cable Using RG316 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: [SMA Male Right Angle to SSMA Male Cable Using RG316 Coax with HeatShrink PE3W10248/HS](#)

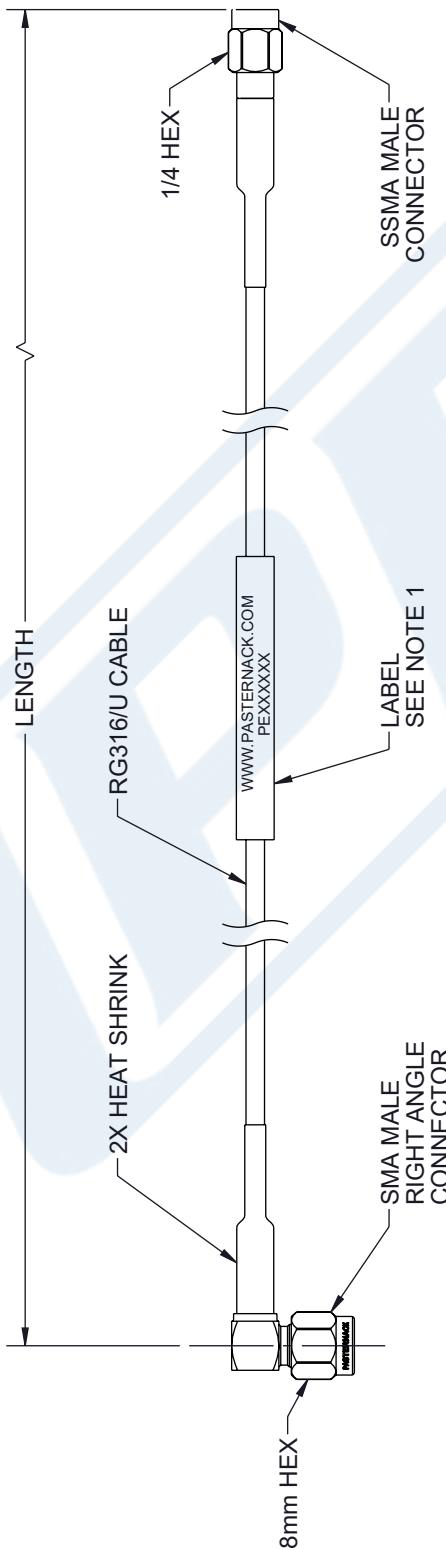
URL: <https://www.pasternack.com/sma-male-right-angle-to-ssma-male-cable-using-rg316-with-heatshrink-pe3w10248-hs-p.aspx>

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.

PE3W10248/HS CAD Drawing

SMA Male Right Angle to SSMA Male Cable Using RG316 Coax with HeatShrink

ZONE	REV.	DESCRIPTION	LAST REVISED	DATE	CHANGED BY	APPROVED BY
	A	INITIAL RELEASE		12/19/2022	HBAKKE	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.
CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY

NOTES.

CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES

21.

— A

TOLERANCES:		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5		
		SCALE	SHEET	1 OF 1
XX = $\pm .2$	[.5]	FRACTIONS		
XX = $\pm .02$	[.5]	$\pm 1/62$		
XXX = $\pm .005$	[.13]	ANGLES $\pm 1^\circ$		
CABLE LENGTH TOLERANCES:				
$>12 [305] = +1 [25] -0$ $>60 [1524] = +1 [251] -0$ $>60 [1524] \leq 120 [3048] = +4 [102] -0$ $>120 [3048] \leq 300 [7620] = +6 [152] -0$ $>300 [7620] = +5 [152] -0$				
DESCRIPTION	ITEM NO.	RE		
SMA Male Right Angle to SSMA Male Cable Using RG316 Coax with HeatShrink	PE3W10248/HS			
SIZE	CAGE CODE	DRAWN BY		
A	533919	HBAKKE		

ALL DIMENSIONS ARE FOR REFERENCE ONLY
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