SMB Plug to N Male Cable Using RG188 Coax with HeatShrink
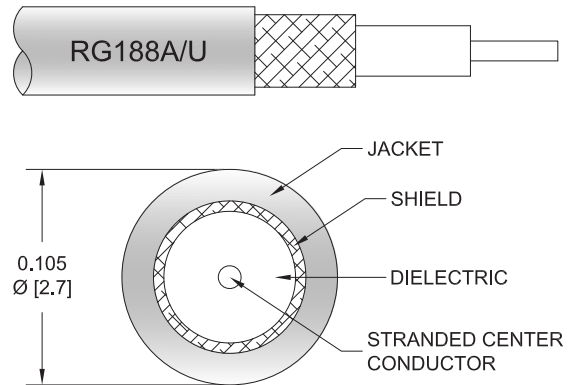
PE3738/HS

Configuration
- Connector 1: SMB Plug
- Connector 2: N Male
- Cable Type: RG188
- Coax Flex Type: Flexible

Features
- Max Frequency 1 GHz
- PTFE Jacket

RG188A/U

0.105
Ø [2.7]

JACKET
SHIELD
DIELECTRIC
STRANDED CENTER CONDUCTOR

Applications
- General Purpose
- Laboratory Use

Description

Pasternack's PE3738/HS SMB plug to type N male cable using RG188 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 SMB to type N cable assembly has a plug to male gender configuration with 50 ohm flexible RG188 coax. The PE3738/HS SMB plug to type N male cable assembly operates to 1 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
VSWR			1.4:1	

Specifications by Frequency

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PE3738/HS

Part Number	Length	Description	F1	Units	Weight (lbs)
		Frequency	400	MHz	
PE3738/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.2	dB/ft	
			0.66	dB/m	
PE3738/HS-12	12 inch	Insertion Loss (Typ.)	0.4	dB	0.084
PE3738/HS-24	24 inch	Insertion Loss (Typ.)	0.6	dB	0.095
PE3738/HS-36	36 inch	Insertion Loss (Typ.)	0.8	dB	0.105
PE3738/HS-48	48 inch	Insertion Loss (Typ.)	1	dB	0.115
PE3738/HS-72	72 inch	Insertion Loss (Typ.)	1.4	dB	0.135

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:	0.084	pounds
Additional Weight per Inch:	0.00084	pounds

Mechanical Specifications

Cable Assembly
Width/Diameter	0.5 in [12.7 mm]
Weight	0.074 lbs [33.57 g]

Cable
Cable Type	RG188
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	PTFE, White
Jacket Diameter	0.11 in [2.79 mm]

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PE3738/HS

Connectors

Description	Connector 1	Connector 2
Type	SMB Plug	N Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Specification	30 µin minimum	30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	100 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	100 µin minimum	100 µin minimum

Environmental Specifications

Operating Range Temperature   -55 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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SMB Plug to N Male Cable Using RG188 Coax with HeatShrink

PE3738/HS

Typical Performance Data

How to Order

Part Number Configuration: **PE3738/HS**   **- xx   uu**

Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number

Example: PE3738/HS-12 = 12 inches long cable
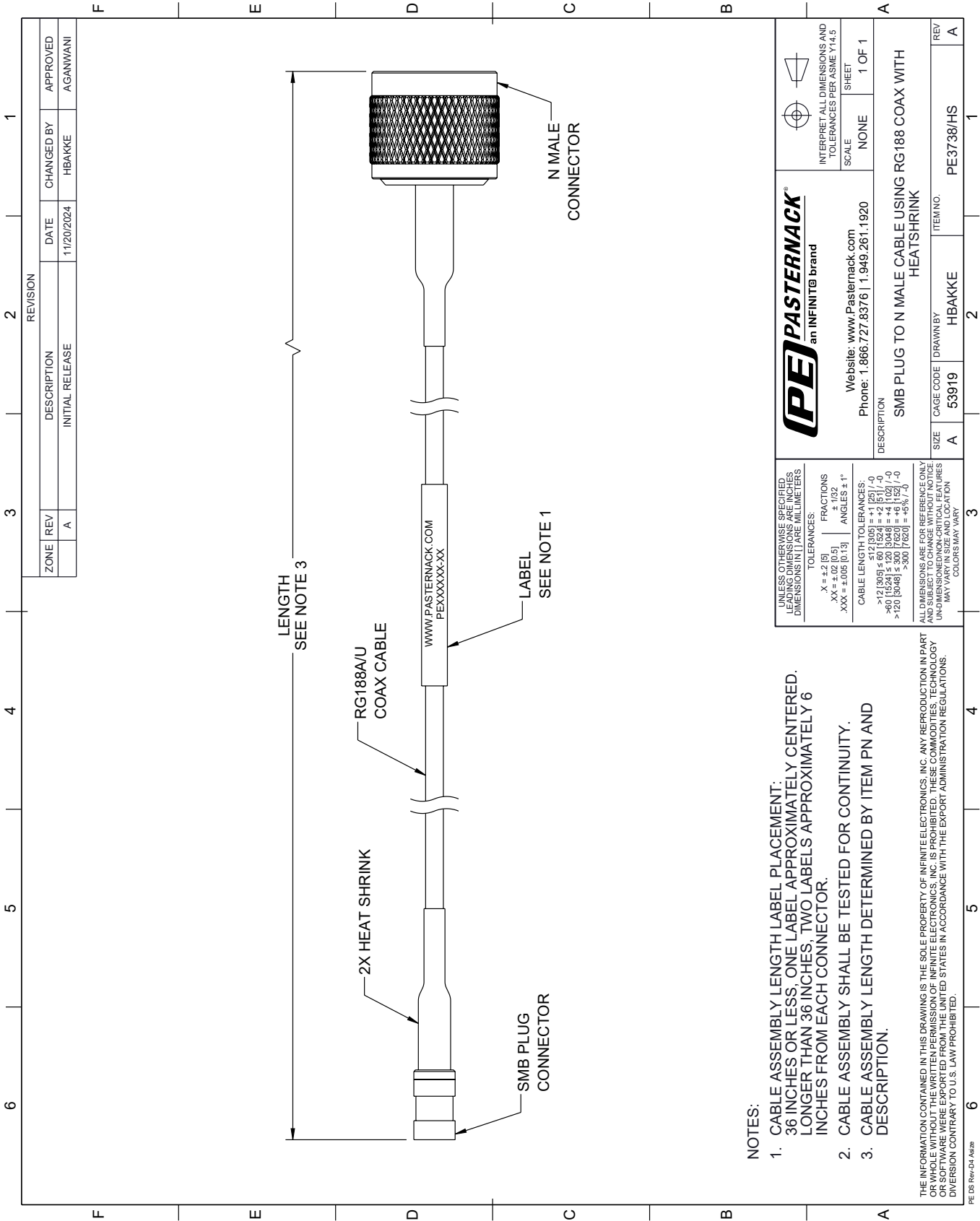PE3738/HS-100cm = 100 cm long cable

SMB Plug to N Male Cable Using RG188 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: SMB Plug to N Male Cable Using RG188 Coax with HeatShrink PE3738/HS

URL: https://www.pasternack.com/smb-plug-to-n-male-cable-using-rg188-with-heatshrink-pe3738-hs-p.aspx

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PE3738/HS CAD Drawing

SMB Plug to N Male Cable Using RG188 Coax with HeatShrink

N MALE CONNECTOR

SMB PLUG CONNECTOR

2X HEAT SHRINK

RG188A/U COAX CABLE

LABEL SEE NOTE 1

WWW.PASTERNACK.COM
PEXXXXXX-XX

LENGTH SEE NOTE 3

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.

2. CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.

3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

REVISION

ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	11/20/2024	HBAKKE	AGANWANI

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

TOLERANCES:

$.X = \pm.2$ [5] | FRACTIONS
$.XX = \pm.02$ [0.5] | $\pm 1/32$
$.XXX = \pm.005$ [0.13] | ANGLES $\pm 1°$

CABLE LENGTH TOLERANCES:
≤ 12 [305] $= +1$ [25] / -0
>12 [305] ≤ 60 [1524] $= +2$ [51] / -0
>60 [1524] ≤ 120 [3048] $= +4$ [102] / -0
>120 [3048] ≤ 300 [7620] $= +6$ [152] / -0
>300 [7620] $= +5\%$ / -0