

SMB Plug to SMB Plug Cable Using RG188-DS Coax with HeatShrink



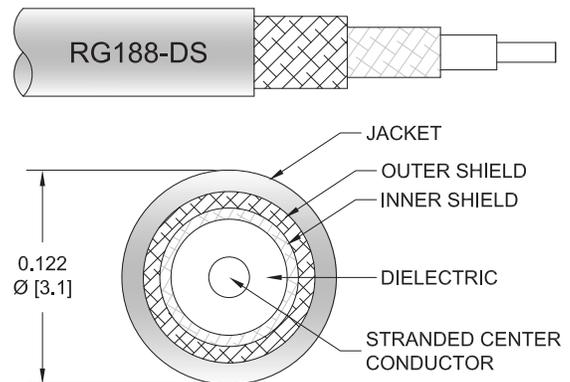
PE3721/HS

Configuration

- Connector 1: SMB Plug
- Connector 2: SMB Plug
- Cable Type: RG188-DS
- Coax Flex Type: Flexible

Features

- Max Frequency 4 GHz
- Double Shielded
- PTFE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3721/HS SMB plug to SMB plug cable using RG188-DS 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 SMB cable assembly has a plug to plug gender configuration with 50 ohm flexible RG188-DS coax. The PE3721/HS SMB plug to SMB plug cable assembly operates to 4 GHz. The double 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	GHz
VSWR			1.4:1	
Capacitance		32 [104.99]		pF/ft [pF/m]
Dielectric Withstanding Voltage (AC)			1,000	V _{rms}

Specifications by Frequency

SMB Plug to SMB Plug Cable Using
RG188-DS Coax with HeatShrink



PE3721/HS

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency	100	250	500	1000	4000	
PE3721/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.115	0.145	0.197	0.3	0.667	dB/ft	
			0.38	0.48	0.65	0.99	2.19	dB/m	
PE3721/HS-12	12 inch	Insertion Loss (Typ.)	0.32	0.35	0.4	0.5	0.87	dB	0.165
PE3721/HS-24	24 inch	Insertion Loss (Typ.)	0.43	0.49	0.6	0.8	1.54	dB	0.18
PE3721/HS-36	36 inch	Insertion Loss (Typ.)	0.55	0.64	0.8	1.1	2.21	dB	0.195
PE3721/HS-48	48 inch	Insertion Loss (Typ.)	0.66	0.78	0.99	1.4	2.87	dB	0.21
PE3721/HS-60	60 inch	Insertion Loss (Typ.)	0.78	0.93	1.19	1.7	3.54	dB	0.225

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: 0.165 pounds
 Additional Weight per Inch: 0.00125 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
 Weight 0.15 lbs [68.04 g]

Cable

Cable Type RG188-DS
 Impedance 50 Ohms
 Inner Conductor Type Stranded
 Inner Conductor Material and Plating Copper Clad Steel, Silver
 Dielectric Type PTFE
 Number of Shields 2
 Shield Layer 1 Silver Plated Copper Braid
 Shield Layer 2 Silver Plated Copper Braid
 Jacket Material PTFE, White
 Jacket Diameter 0.118 in [3 mm]

SMB Plug to SMB Plug Cable Using RG188-DS Coax with HeatShrink



PE3721/HS

Connectors

Description	Connector 1	Connector 2
Type	SMB Plug	SMB Plug
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	30μ in. minimum	30μ in. minimum
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100μ in. minimum	100μ in. minimum

Environmental Specifications

Operating Range Temperature -55 to +165 deg C

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

Plotted and Other Data

Notes:

SMB Plug to SMB Plug Cable Using RG188-DS Coax with HeatShrink



PE3721/HS

Typical Performance Data

How to Order

Part Number Configuration:

PE3721/HS - xx uu

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

Length

Base Number

Example: PE3721/HS-12 = 12 inches long cable
PE3721/HS-100cm = 100 cm long cable

SMB Plug to SMB Plug Cable Using RG188-DS 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.

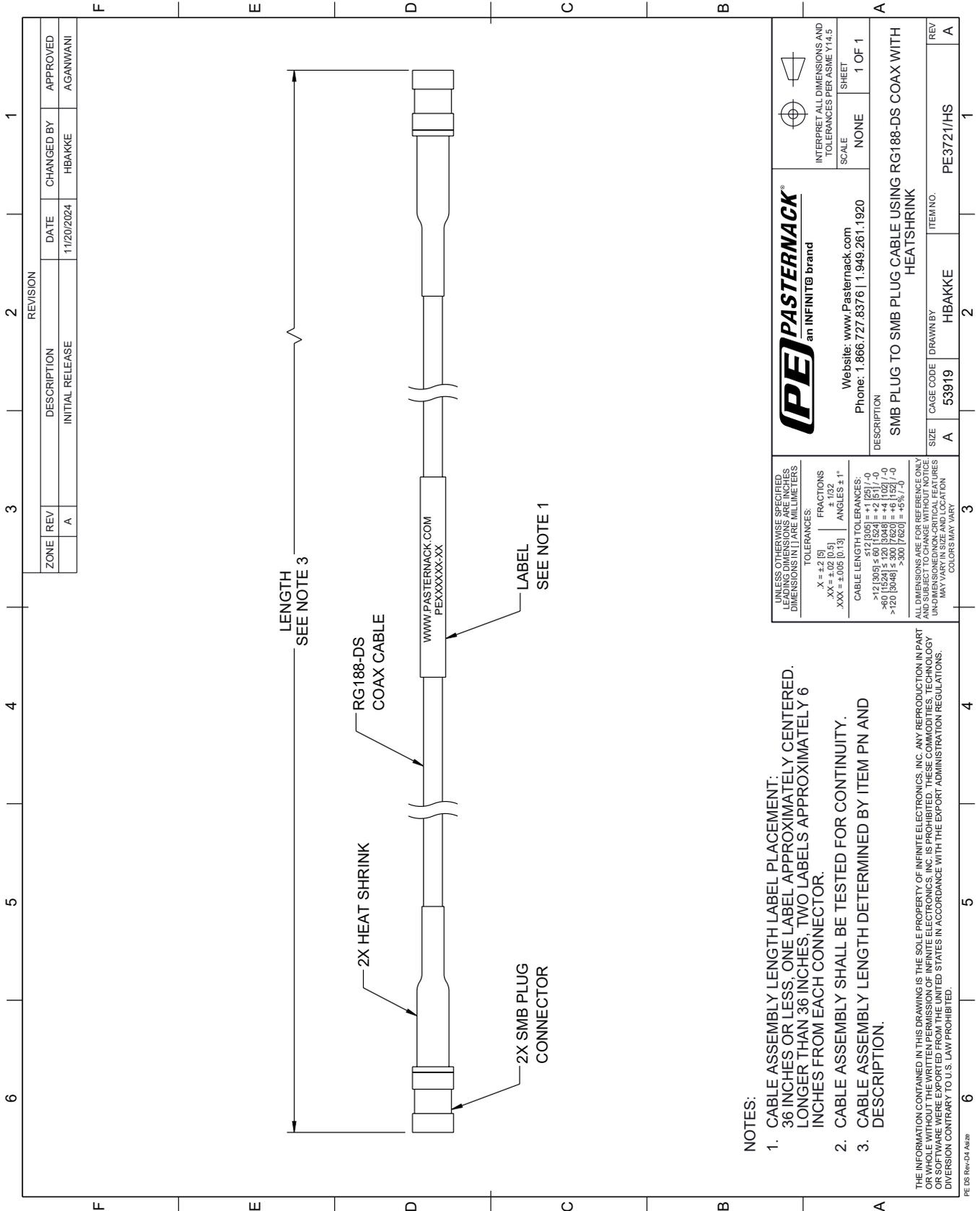
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMB Plug to SMB Plug Cable Using RG188-DS Coax with HeatShrink PE3721/HS](#)

URL: <https://www.pasternack.com/smb-plug-to-smb-plug-cable-using-rg188-ds-with-heatshrink-pe3721-hs-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3721/HS CAD Drawing

SMB Plug to SMB Plug Cable Using RG188-DS Coax with HeatShrink



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.

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SERVICES ARE BEING EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

PE DS Rev-D4 Add2

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

		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		SCALE	SHEET
		NONE	1 OF 1
DESCRIPTION SMB PLUG TO SMB PLUG CABLE USING RG188-DS COAX WITH HEATSHRINK			
SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	HBAKKE	PE3721/HS
REV			A

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

TOLERANCES:
 .X = ±.2 [5]
 .XX = ±.02 [0.5]
 .XXX = ±.005 [0.13]

FRACTIONS
 ± 1/32
 ANGLES ± 1°

CABLE LENGTH TOLERANCES:
 >12 [305] ≤ 60 [1524] = ±.1 [25] / -0
 >60 [1524] ≤ 120 [3048] = ±.4 [102] / -0
 >120 [3048] ≤ 300 [7620] = ±.6 [152] / -0
 >300 [7620] = ±.6 [152] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED/NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.