

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



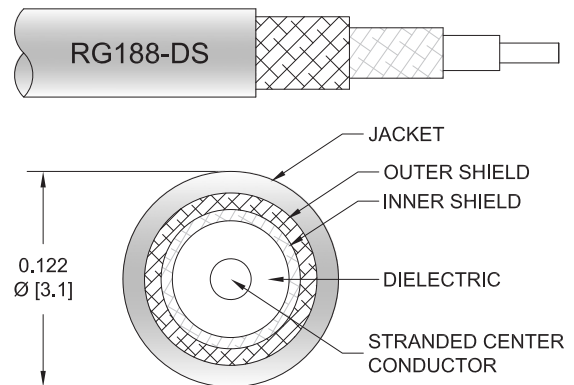
PE3721/HS

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	Vrms

Specifications by Frequency

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PE3721/HS

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	100	250	500	1000	4000	MHz	
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]

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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:

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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

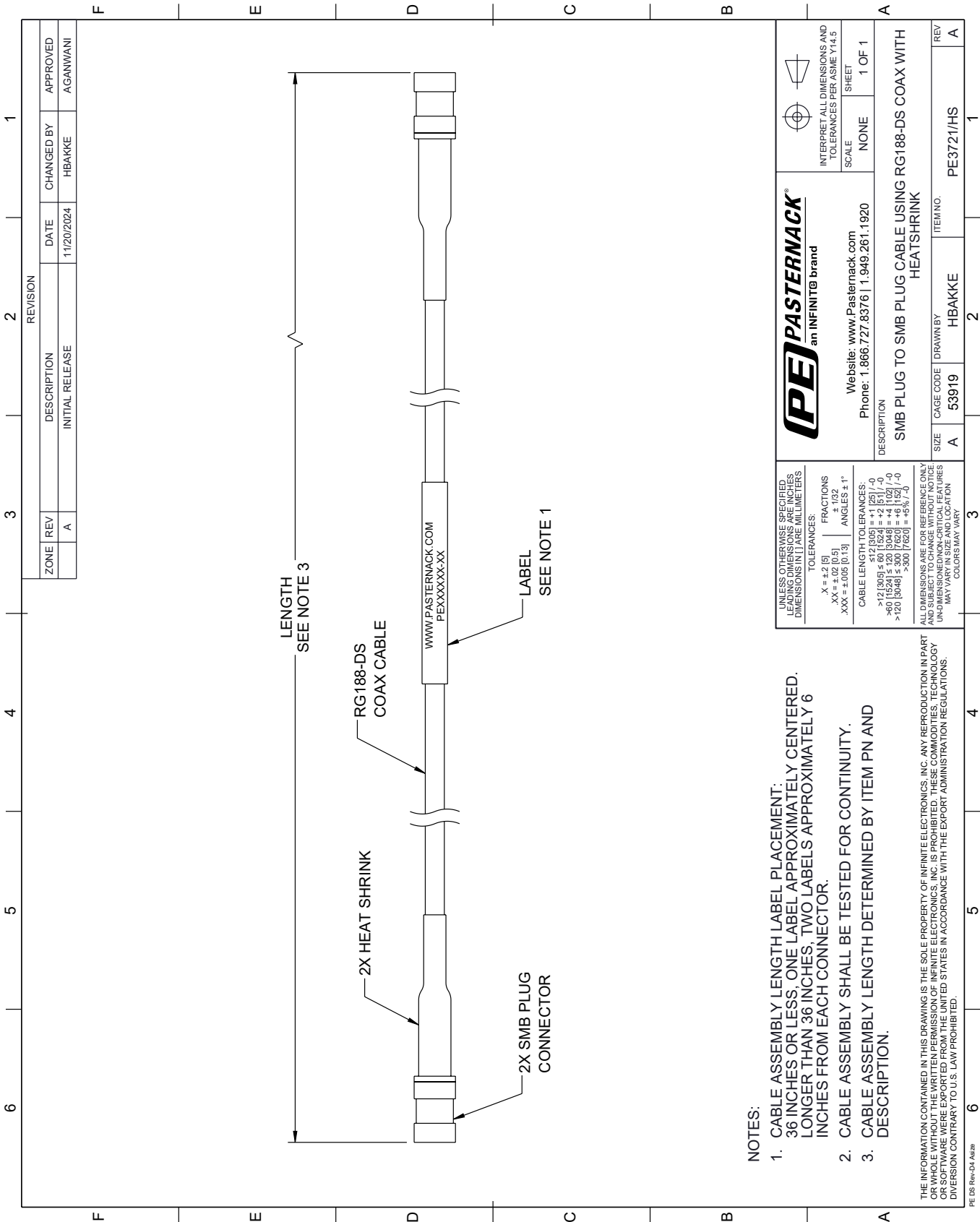
SMB Plug to SMB Plug Cable Using RG188-DS Coax with HeatShrink from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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>

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PE3721/HS CAD Drawing
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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.

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

TOLERANCES: X = ±.2 [5] FRACTIONS ±.132 XX = ±.02 [0.5] ANGLES ± 1° .XXX = ±.005 [0.13]

CABLE LENGTH TOLERANCES: >12 [305] ≤ 60 [1524] = ±.125 [-0 / +0] >60 [1524] ≤ 120 [3048] = ±.125 [-0 / +0] >120 [3048] ≤ 300 [7620] = ±.125 [-0 / +0]

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

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE SHEET: 1 OF 1

DESCRIPTION: SMB PLUG TO SMB PLUG CABLE USING RG188-DS COAX WITH HEATSHRINK

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	HBAKKE	PE3721/HS	A