



## SMB Plug to SMB Plug Cable Using RG188 Coax

### RF Cable Assemblies Technical Data Sheet

PE3587

#### Configuration

- Connector 1: SMB Plug
- Connector 2: SMB Plug
- Cable Type: RG188

#### Features

- Max Frequency 3 GHz
- 70% Phase Velocity
- PTFE Jacket

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3587 SMB plug to SMB plug 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 SMB cable assembly has a plug to plug gender configuration with 50 ohm flexible RG188 coax. The PE3587 SMB plug to SMB plug cable assembly operates to 3 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.

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 Coax PE3587](#)



## SMB Plug to SMB Plug Cable Using RG188 Coax

### RF Cable Assemblies Technical Data Sheet

PE3587

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Return Loss			15.563	dB
Velocity of Propagation		70		%
Operating Voltage (AC)			1,200	Vrms
Dielectric Withstanding Voltage (AC)			1,000	Vrms

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.4	1	3		GHz
Insertion Loss (Max.)	0.08	0.16	0.26	0.47		
	0.26	0.52	0.85	1.54		
Return Loss (Max.)					15.563	

#### Mechanical Specifications

##### Cable Assembly

Weight 0.035 lbs [15.88 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]

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 Coax PE3587](#)



SMB Plug to SMB Plug Cable Using RG188 Coax

RF Cable Assemblies Technical Data Sheet

PE3587

**Connectors**

Description	Connector 1	Connector 2
Type	SMB Plug	SMB Plug
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
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**

**Temperature**

Operating Range

-65 to +165 deg C

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

**Plotted and Other Data**

Notes:

- Values at 25°C, sea level.

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 Coax PE3587](#)



## SMB Plug to SMB Plug Cable Using RG188 Coax

### RF Cable Assemblies Technical Data Sheet

PE3587

#### How to Order

Part Number Configuration:

PE3587

- xx

uu

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

Example: PE3587-12 = 12 inches long cable  
PE3587-100cm = 100 cm long cable

SMB Plug to SMB Plug Cable Using RG188 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: [SMB Plug to SMB Plug Cable Using RG188 Coax PE3587](#)

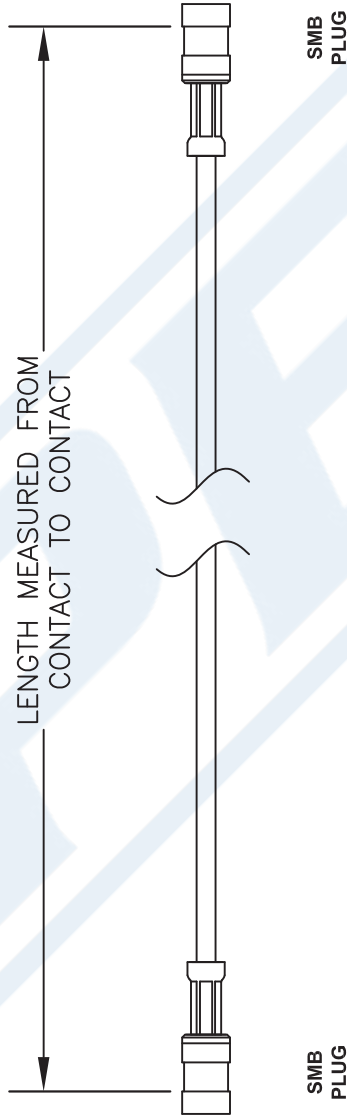
URL: <https://www.pasternack.com/smb-plug-smb-plug-rg188au-cable-assembly-pe3587-p.aspx>

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.

# PE3587 CAD Drawing

## SMB Plug to SMB Plug Cable Using RG188 Coax

Standard Lengths	
-12	12"
-24	24"
-36	36"
-48	48"
-60	60"
-XXX	Custom Length in Inches



- NOTES:**
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
  2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
  3. DIMENSIONS ARE IN INCHES (mm).
  4. LENGTH TOLERANCE IS  $\pm 1.5\%$  OR  $3/8"$ , WHICHEVER IS GREATER.

DWG TITLE  
**PE3587-XX**

**PASTERNAK®**  
 Pasternack Enterprises, Inc.  
 P.O. Box 16759 | Irvine | CA | 92623  
**Phone:** (949) 261-1920 | **Fax:** (949) 261-7451  
**Website:** [www.pasternack.com](http://www.pasternack.com) | **E-Mail:** [sales@pasternack.com](mailto:sales@pasternack.com)

REV. A	FSCM NO. 53919	CAD FILE 021308	SCALE N/A	SIZE A	127
--------	----------------	-----------------	-----------	--------	-----