



SSMB Plug Connector Crimp/Solder Attachment for RG174,
RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch

RF Connectors Technical Data Sheet

PE4017

Configuration

- SSMB Plug Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch

Features

- Max. Operating Frequency 6 GHz
- Good VSWR of 1.3:1
- Gold Plated Beryllium Copper Contact
- 30 μ m minimum contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4017 SSMB plug connector with crimp/solder attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100 and .100 inch is part of our full line of RF components available for same-day shipping. Our SSMB plug connector operates up to a maximum frequency of 6 GHz and offers good VSWR of 1.3:1.

Our SSMB plug connector PE4017 datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.3:1	
Operating Voltage (AC)			250	Vrms
Dielectric Withstanding Voltage (AC)			500	Vrms

Mechanical Specifications

Size	
Length	0.807 in [20.5 mm]
Width/Dia.	0.184 in [4.67 mm]
Height	0 in [0 mm]
Weight	0.008 lbs [3.63 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SSMB Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch PE4017](#)



SSMB Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch

RF Connectors Technical Data Sheet

PE4017

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold 30 µin minimum
Insulation	PTFE	
Outer Conductor	Beryllium Copper	Gold 30 µin minimum
Body	Brass	Gold 30 µin minimum
Crimp Sleeve	Brass	Gold 30 µin minimum

Environmental Specifications

Temperature

Operating Range -65 to +165 deg C

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

Plotted and Other Data

Notes:

SSMB Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch 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: [SSMB Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch PE4017](#)

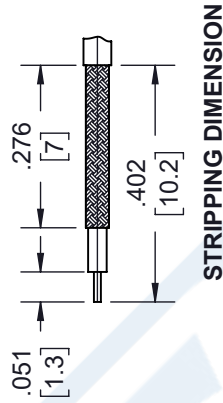
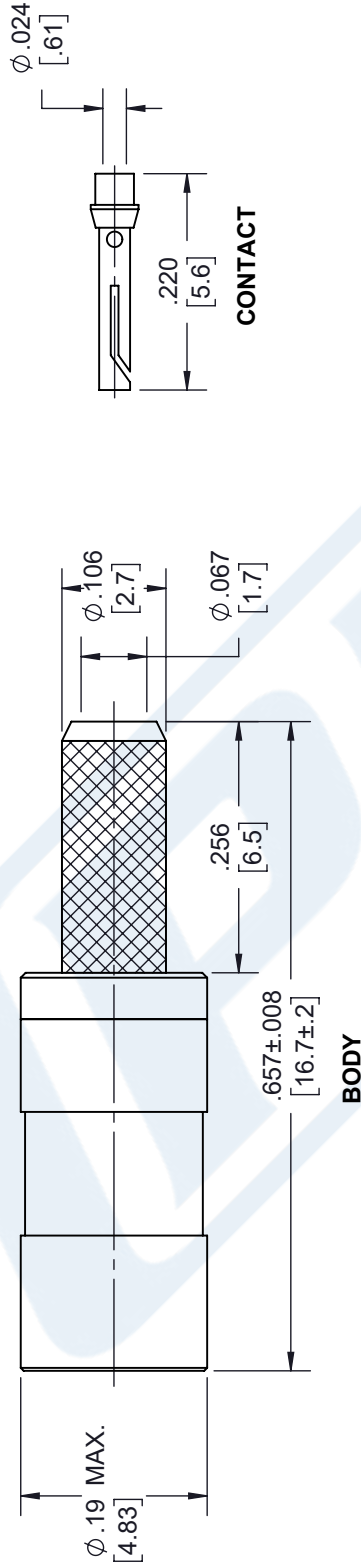
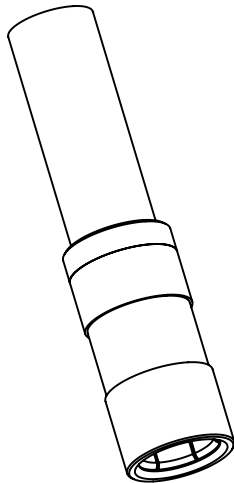
URL: <https://www.pasternack.com/ssmb-plug-rg174-rg316-lmr-100-pe-b100-pe-c100-connector-pe4017-p.aspx>

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PE4017 CAD Drawing

SSMB Plug Connector Crimp/Solder Attachment for RG174,
RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch

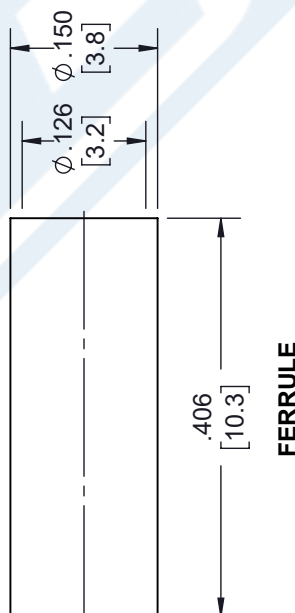
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
B	PCR PE4017	4/7/22	SRAUTUS



CRIMP SIZE REQUIRED

CONTACT: SOLDER

FERRULE: .128" HEX CRIMP TOOL



PE PASTERNAK an INFINITI brand Pasternack Enterprises, Inc. P.O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920 1.866.727.8376 Fax: 1.949.261.7451 Website: www.pasternack.com E-mail: sales@pasternack.com		THIRD-ANGLE PROJECTION THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION. ALL RIGHTS RESERVED. SHEET 1 OF 1 SCALE N/A	
UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS TOLERANCES: X = $\pm .2$ [5.08] XX = $\pm .02$ [.51] XXX = $\pm .005$ [.13] CABLE LENGTH (L) TOLERANCES: L $\leq$ 12 [305] = ± 1 [25] / -0 12 [305] < L $\leq$ 60 [1524] = ± 2 [51] / -0 60 [1524] < L $\leq$ 120 [3048] = ± 4 [102] / -0 120 [3048] < L $\leq$ 300 [7620] = ± 6 [152] / -0 300 [7620] < L = $\pm 5\%$ / -0 ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	SIZE A CAGE CODE 53919 DRAWN BY HBAKKE ITEM NO. PE4017	REV B	

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SMA Female Bulkhead Mount Connector Crimp/Solder Attachment for RG316, RG174, RG188, PE-B100, PE-C100, .100 inch, LMR-100, .235 inch D Hole



PE4427

Configuration

- SMA Female Connector
- MIL-STD-348
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: RG316, RG174, RG188, PE-B100, PE-C100, .100 inch, LMR-100
- Bulkhead

Features

- Gold Plated Beryllium Copper Contact
- Contact plating according to MIL-G-45204

Applications

- General Purpose Test
- Rack and Panel Mount Applications
- Custom Cable Assemblies

Description

Pasternack's PE4427 , SMA, Standard, Connector is part of our full line of RF components available for same-day shipping. This SMA bulkhead connector allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Our SMA female bulkhead connector PE4427 datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Impedance		50		Ohms

Mechanical Specifications

Size

Length	0.9 in [22.86 mm]
Width	0.312 in [7.92 mm]
Height	0.312 in [7.92 mm]
Weight	0.008 lbs [3.63 g]
Mating Cycles	500 Cycles

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold MIL-G-45204
Outer Conductor	Brass	Nickel
Body	Brass	Nickel

SMA Female Bulkhead Mount Connector Crimp/Solder
Attachment for RG316, RG174, RG188, PE-B100,
PE-C100, .100 inch, LMR-100, .235 inch D Hole



PE4427

Environmental Specifications

Temperature

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

Plotted and Other Data

Notes:

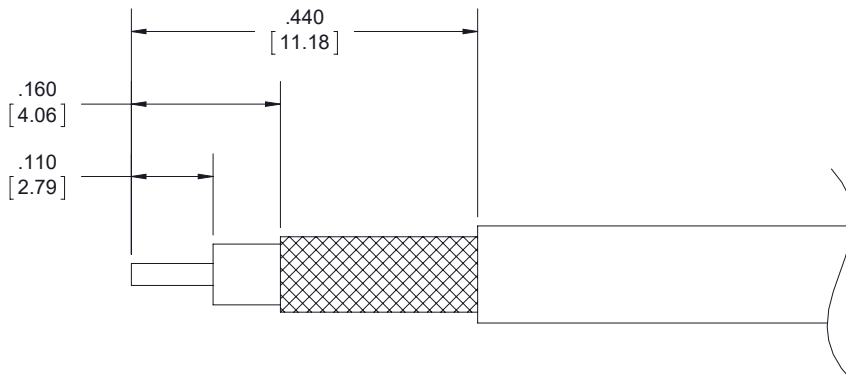
SMA Female Bulkhead Mount Connector Crimp/Solder Attachment for RG316, RG174, RG188, PE-B100, PE-C100, .100 inch, LMR-100, .235 inch D Hole

PE4427



Assembly Instruction

*



ASSEMBLY PROCEDURES

1. STRIP CABLE TO THE DIMENSIONS SHOWN, DO NOT NICK CENTER CONDUCTOR OR BRAID.
2. SLIDE FERRULE OVER CABLE.
3. PUSH CENTER CONDUCTOR FULLY INTO CONTACT AND SOLDER, REMOVE ANY EXCESS SOLDER.
4. FLAIR BRAID AND INSERT CONTACT INTO THE BODY UNTIL IT SEATS.
5. SLIDE FERRULE OVER BRAID AND CRIMP.

CRIMP SIZE REQUIRED

- FERRULE: A.128" HEX CRIMP TOOL.
- CONTACT: SOLDER.

SMA Female Bulkhead Mount Connector Crimp/Solder Attachment for RG316, RG174, RG188, PE-B100, PE-C100, .100 inch, LMR-100, .235 inch D Hole



PE4427

SMA Female Bulkhead Mount Connector Crimp/Solder Attachment for RG316, RG174, RG188, PE-B100, PE-C100, .100 inch, LMR-100, .235 inch D Hole 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 Female Bulkhead Mount Connector Crimp/Solder Attachment for RG316, RG174, RG188, PE-B100, PE-C100, .100 inch, LMR-100, .235 inch D Hole PE4427](https://www.pasternack.com/sma-female-rg316-rg174-pe-b100-pe-c100-.100-connector-pe4427-p.aspx)

URL: <https://www.pasternack.com/sma-female-rg316-rg174-pe-b100-pe-c100-.100-connector-pe4427-p.aspx>

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SMA Female Bulkhead Mount Connector Crimp/Solder Attachment for RG316, RG174, RG188, PE-B100, PE-C100, .100 inch, LMR-100, .235 inch D Hole



Flexible RG188 Coax Cable Single Shielded with White PTFE Jacket



RG188A/U

Configuration

- Flexible Cable
- 1 Shield(s)

Features

- High temperature 50 Ohm data signal transmission
- Teflon taped outer jacket results in a 200 degree C operating temperature
- Stranded center conductor allows cable to be very flexible
- Small diameter is ideal for tight fit applications
- Associated connectors and crimp tools available

Applications

- Ethernet
- Data
- Premise Wiring
- R&D

Description

RG188 coax cable from Pasternack is only one of a large number of radio frequency twinaxial and coaxial cable types specifically stocked to be ready for quick shipment. Pasternack's RG188A/U coax cable is manufactured in a flexible design and has a 50 Ohm impedance. This flexible 50 Ohm coax cable RG188 is constructed with a 0.11 inch diameter and PTFE jacket.

RG188 RG188A/U flexible 50 Ohm coax cable with PTFE jacket is rated for a 3 GHz maximum operating frequency. This 50 Ohm 0.11 inch diameter and flexible coax cable is built with a shield count of 1.

Pasternack's RG188 coax is constructed with PTFE dielectric and a maximum operating temperature of 250 degrees C. RG188 coax cable specs for this wire properties can be found on its RF coax cable RG-188 datasheet PDF specifications above.

RG188 cable is part of more than one million RF, microwave and millimeter wave parts in stock at Pasternack. This RG-188 coax cable is ready to buy and can be shipped worldwide. Pasternack also maintains a wide selection of other radio frequency twinaxial and coaxial cable types that ship same-day from our warehouse as with the rest of our other RF/microwave and millimeter wave components.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
Impedance		50		Ohms
Velocity of Propagation		70		% of c
Time Delay		1.45 [4.76]		ns/ft [ns/m]
Dielectric Withstanding Voltage (AC)			2,000	Vrms
Inner Conductor DC Resistance			84.1	Ohms/1000ft
Nominal Capacitance			29.3 [96.13]	pF/ft [pF/m]
Power@ 1GHz			160	Watts

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	400					MHz

Flexible RG188 Coax Cable Single Shielded with White PTFE Jacket



RG188A/U

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Attenuation, Typ	20					dB/100ft
	65.62					dB/100m

Electrical Specification Notes:

Static Bending Radius: One Time: 0.52 inch, repeated: 1.03

Mechanical Specifications

Diameter	0.11 in [2.79 mm]
Weight	0.01 lbs/ft [0.01 kg/m]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver, 7 Strands	0.02 in [0.51 mm]
Conductor Type	Stranded	
Dielectric	PTFE	0.06 in [1.52 mm]
First Shield	Silver Plated Copper Braid	0.081 in [2.06 mm]
	95.2% coverage	
Jacket	PTFE, White	0.11 in [2.79 mm]

Environmental Specifications

Temperature	
Operating Range	-55 to 200 deg C

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

Plotted and Other Data

Notes:

Flexible RG188 Coax Cable Single Shielded with White PTFE Jacket



RG188A/U

Flexible RG188 Coax Cable Single Shielded with White PTFE Jacket 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: [Flexible RG188 Coax Cable Single Shielded with White PTFE Jacket RG188A/U](#)

URL: <https://www.pasternack.com/50-ohm-flexible-rg188au-ptfe-jacket-silver-plated-copper-braid-outer-conductor-single-shielded-white-rg188a-u-p.aspx>

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Flexible RG188 Coax Cable Single Shielded with White PTFE Jacket



STANDARD TOLERANCES

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES



PASTERNAK®
THE ENGINEER'S RF SOURCE

Pasternack Enterprises, Inc.
P.O. Box 16759 | Irvine | CA | 92623

Phone: (949) 261-1920 | **Fax:** (949) 261-7451
Website: www.pasternack.com | **E-Mail:** sales@pasternack.com

DWG TITLE

RG188A/U

CAGE CODE 53919

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].

CAD FILE 091817

SCALE N/A

SIZE A

7361