



RF Connectors
Technical Data Sheet

PE45404A

### Configuration

- FAKRA Plug Connector
- 50 Ohms
- Straight Body Geometry

- •RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100 Interface Type
- Crimp/Solder Attachment

#### **Features**

- Max. Operating Frequency 4 GHz
- Good VSWR of 1.3:1

• Gold Plated Phosphor Bronze Contact

### **Applications**

General Purpose Test

Custom Cable Assemblies

### **Description**

Pasternack's PE45404A FAKRA plug connector with crimp/solder attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100 and LMR-100 is part of our full line of RF components available for same-day shipping. Our FAKRA plug connector operates up to a maximum frequency of 4 GHz and offers good VSWR of 1.3:1.

Our FAKRA plug connector PE45404A 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		4	GHz
VSWR			1.3:1	
Operating Voltage (AC)			335	Vrms
Dielectric Withstanding Voltage (AC)			800	Vrms
Inner Conductor DC Resistance			6	mOhms
Outer Conductor DC Resistance			2.5	mOhms
Insulation Resistance	1,000			MOhms

### **Mechanical Specifications**

Size

 Length
 0.89 in [22.61 mm]

 Width/Dia.
 0.37 in [9.40 mm]

 Height
 0.433 in [11 mm]

 Weight
 0.005 lbs [2.27 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: FAKRA Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100, Black Color PE45404A

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451





RF Connectors Technical Data Sheet

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#### **Material Specifications**

Description	Material	Plating
Contact	Phosphor Bronze	Gold
Insulation	PTFE	
Outer Conductor	Brass	Nickel
Body	Plastic	

### **Environmental Specifications**

Temperature

Operating Range

-40 to +85 deg C

Compliance Certifications (see product page for current document)

**Plotted and Other Data** 

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: FAKRA Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100, Black Color PE45404A

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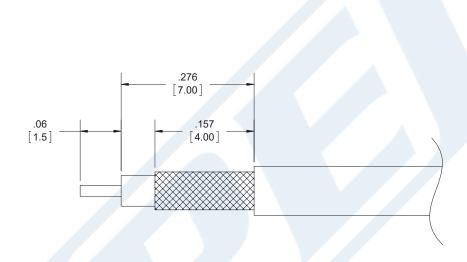




RF Connectors Technical Data Sheet

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### Assembly Instruction



### **ASSEMBLY PROCEDURES**

- STRIP CABLE TO THE DIMENSIONS SHOWN, DO NOT NICK CENTER CONDUCTOR OR BRAID.
- PUSH CENTER CONDUCTOR FULLY INTO CONTACT AND SOLDER, REMOVE ANY EXCESS SOLDER.
- FLARE BRAID AND INSERT CONTACT INTO THE BODY UNTIL IT SEATS.
- 4. SLIDE FERRULE OVER BRAID AND CRIMP WITH CRIMP TOOL.

### **CRIMP SIZE REQUIRED**

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

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: FAKRA Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100, Black Color PE45404A

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

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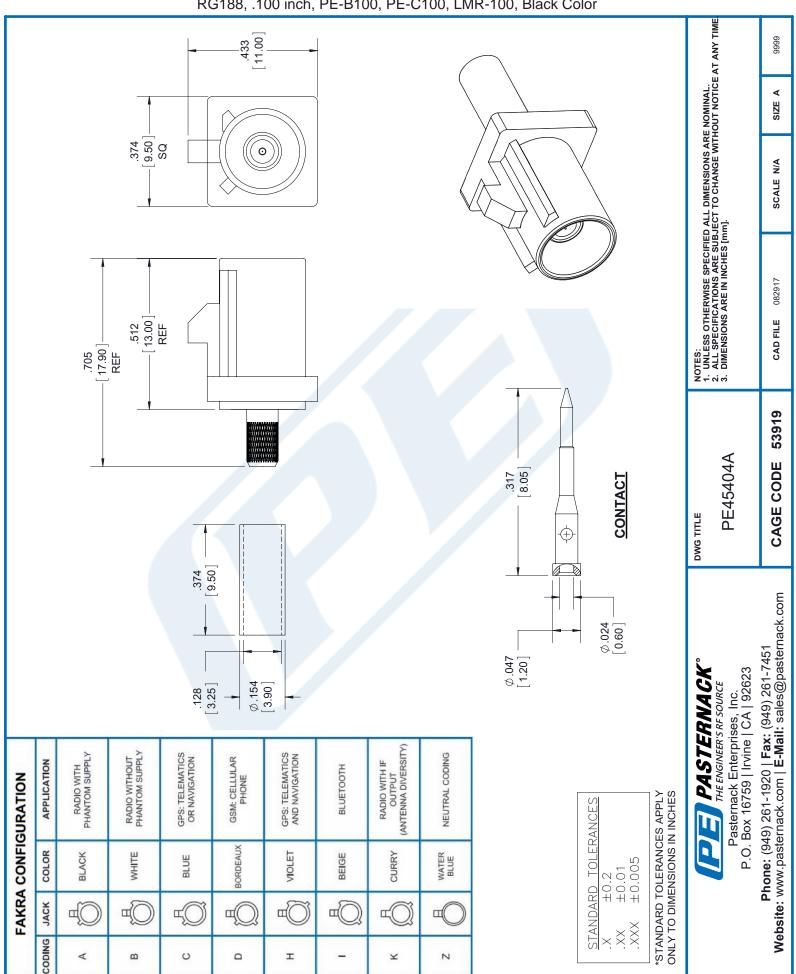
URL: https://www.pasternack.com/fakra-plug-rg174-rg316-.100-pe-b100-pe-c100-connector-pe45404a-p.aspx

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.

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# PE45404A CAD Drawing

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







### **PE4427**

#### Configuration

- · SMA Female Connector
- MIL-STD-348
- 50 Ohms
- Straight Body Geometry

### **Features**

· Gold Plated Beryllium Copper Contact

### **Applications**

- · General Purpose Test
- · Rack and Panel Mount Applications

- Connector Interface Types: RG316, RG174, RG188, PE-B100, PE-C100, .100 inch, LMR-100
- Bulkhead
- · Contact plating according to MIL-G-45204
- · 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	





### **PE4427**

**Environmental Specifications Temperature** 

Compliance Certifications (see product page for current document)

**Plotted and Other Data** 

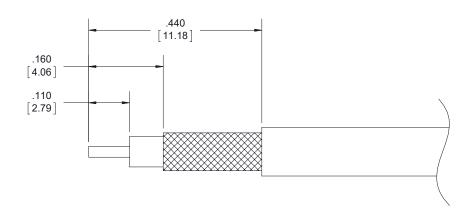
Notes:





### **PE4427**

### **Assembly Instruction**



### **ASSEMBLY PROCEDURES**

- STRIP CABLE TO THE DIMENSIONS SHOWN, DO NOT NICK CENTER CONDUCTOR OR BRAID.
- 2. SLIDE FERRULE OVER CABLE.
- 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.





### **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.

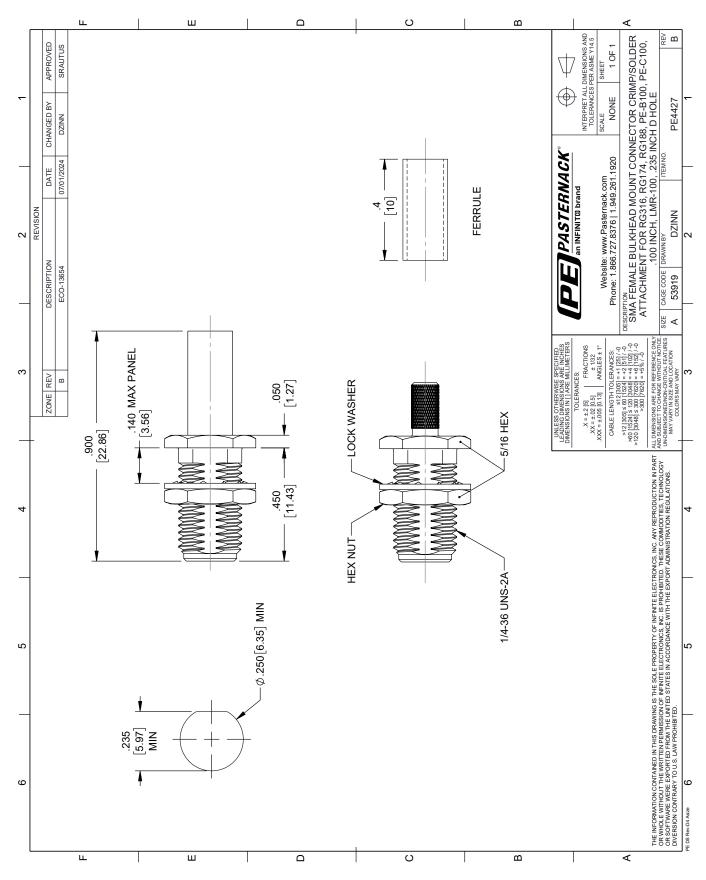
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Female Bulkhead Mount Connector Crimp/Solder Attachment for RG316, RG174, RG188, PE-B100, PE-C100, .100 inch, LMR-100, .235 inch D Hole PE4427

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

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## PE4427 CAD Drawing

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 RG174 Coax Cable Single Shielded with Black PVC Jacket

### **RF Cables Technical Data Sheet**





## **Times Microwave Systems Coax Cable Specification** Configuration

- · Flexible Cable
- 1 Shield(s)

### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
Impedance		50		Ohms
Velocity of Propagation		66		%
Nominal Capacitance	7 (0.008)	31.08 [101.97]	3 ( )	pF/ft [pF/m]
Power@ 1GHz			17	Watts

### **Performance by Frequency Band**

Description	F1	F2	F3	F4	F5	Units
Frequency	100	400	1,000			MHz
Attenuation, Typ	8.4	19	32			dB/100ft
	27.56	62.34	104.99			dB/100m

### **Mechanical Specifications**

Diameter 0.11 in [2.79 mm] Weight 0.009 lbs/ft [0.01 kg/m]

### **Construction Specifications**

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, 7 Strands	0.019 in [0.48 mm]
Conductor Type	Stranded	
Dielectric	PE	0.06 in [1.52 mm]
First Shield	Tinned Copper Braid	0.078 in [1.98 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Flexible RG174 Coax Cable Single Shielded with Black PVC Jacket RG174A/U

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## Flexible RG174 Coax Cable Single Shielded with Black PVC Jacket

### **RF Cables Technical Data Sheet**



Jacket PVC, Black 0.11 in [2.79 mm]

### **Environmental Specifications**

**Temperature** 

Operating Range

-40 to +80 deg C

Compliance Certifications (see product page for current document)

### **Plotted and Other Data**

Notes:

Flexible RG174 Coax Cable Single Shielded with Black PVC 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 RG174 Coax Cable Single Shielded with Black PVC Jacket RG174A/U

URL: https://www.pasternack.com/flexible-0.100-rg174-50-ohm-coax-cable-pvc-jacket-rg174a-u-p.aspx

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