



SMB Plug Right Angle Connector Crimp/Solder Attachment for RG188-DS, RG316-DS

RF Connectors Technical Data Sheet

PE44818

Configuration

- SMB Plug Connector
- MIL-STD-348A
- 50 Ohms

- Right Angle Body Geometry
- RG188-DS, RG316-DS Interface Type
- Crimp/Solder Attachment

Features

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

- Gold Plated Beryllium Copper Contact
- 30µ in. minimum contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE44818 SMB plug right angle connector with crimp/solder attachment for RG188-DS and RG316-DS is part of our full line of RF components available for same-day shipping. Our SMB plug connector operates up to a maximum frequency of 4 GHz and offers good VSWR of 1.3:1. Its right angle body geometry allows for easier connections in tight spaces.

Our SMB plug right angle connector PE44818 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) | | | 250 | Vrms |
| Dielectric Withstanding Voltage (AC) | | | 750 | Vrms |

Mechanical Specifications

| Size | |
|------------|--------------------|
| Length | 0.51 in [12.95 mm] |
| Width/Dia. | 0.256 in [6.50 mm] |
| Height | 0.75 in [19.05 mm] |
| Weight | 0.02 lbs [9.07 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMB Plug Right Angle Connector Crimp/Solder Attachment for RG188-DS, RG316-DS PE44818](#)



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Material Specifications

| Description | Material | Plating |
|-------------|------------------|----------------------------|
| Contact | Beryllium Copper | Gold 30µ in. minimum |
| Insulation | Teflon | |
| Body | Brass | Nickel 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

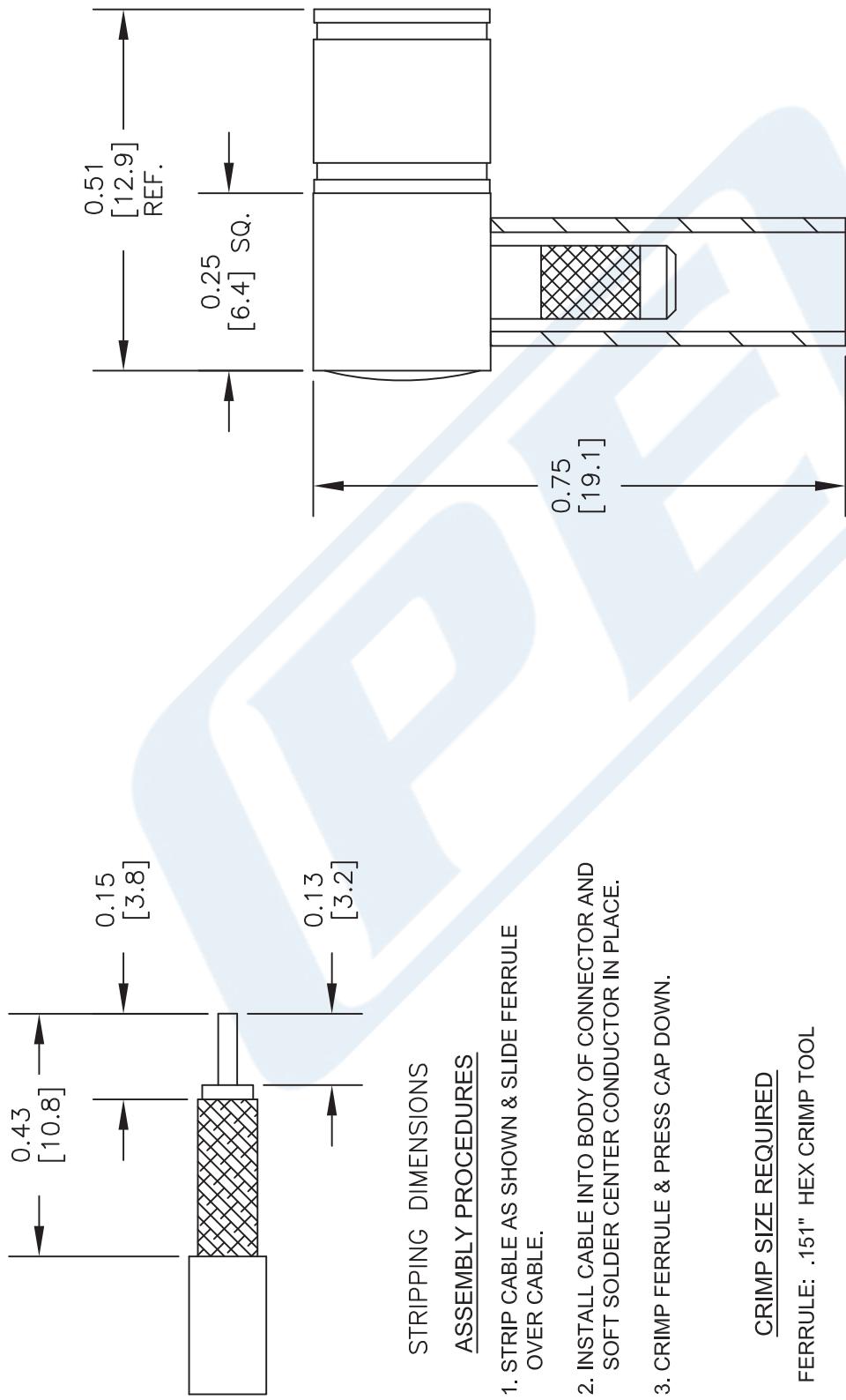
Notes:

SMB Plug Right Angle Connector Crimp/Solder Attachment for RG188-DS, RG316-DS from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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URL: <https://www.pasternack.com/smb-plug-rg188-ds-rg316-ds-connector-pe44818-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.



| STANDARD TOLERANCES | | |
|---------------------|-------|--|
| .X | ±0.2 | |
| .XX | ±0.1 | |
| .XXX | ±0.05 | |

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS 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].

| DWG TITLE | PE44818 | CAD FILE | 112916 | SCALE | N/A | SIZE | A | 2233 |
|-----------------------------------------|---------|----------|--------|-------|-----|------|---|------|
| PASTERNACK® THE ENGINEER'S RF SOURCE | | | | | | | | |

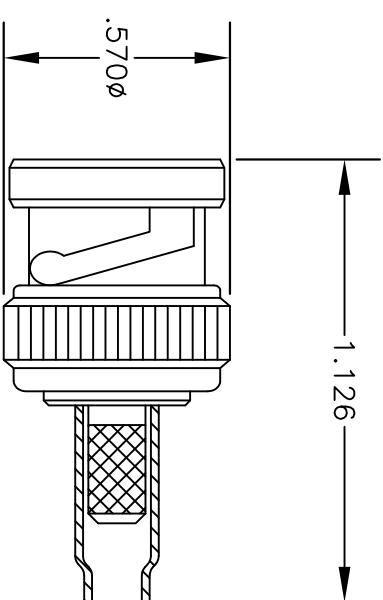
PASTERNACK®
THE ENGINEER'S RF SOURCE

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

| MATERIALS | |
|------------------|---------------------|
| BODY | BRASS NICKEL PLATED |
| CONTACT | GOLD PLATED |
| INSULATOR | PTFE |
| | |



ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN & SLIDE FERRULE (1) ONTO CABLE.
2. FLARE END OF CABLE BRAID & SLIDE METAL SPACER (2) & PTFE (3) SPACER OVER CABLE DIELECTRIC.
3. THE CONTACT (4) SHOULD BUTT AGAINST THE DIELECTRIC & PTFE SPACER. CRIMP CONTACT TO CABLE CENTER CONDUCTOR.
4. INSTALL CABLE ASSEMBLY INTO BODY SO THAT THE INNER FERRULE PORTION OF BODY SLIDES UNDER BRAID. PUSH CABLE ASSEMBLY FORWARD UNTIL CONTACT SNAPS INTO PLACE. SLIDE FERRULE OVER BRAID AND UP AGAINST CONNECTOR BODY & CRIMP.



PASTERНАCK ENTERPRISES[®]
ESTABLISHED 1972

PASTERНАCK ENTERPRISES, INC.
P.O. BOX 16759, IRVINE, CA 92623
PHONE (949) 261-1920 FAX (949) 261-7451
WEB ADDRESS: www.pasterнак.com
E-MAIL ADDRESS: sales@pasterнак.com

COAXIAL & FIBER OPTICS

CRIMP SIZES REQUIRED

PE4385

DWG TITLE

PE4385

REV.

000

EDITION

1

DATE

01/00

VER.

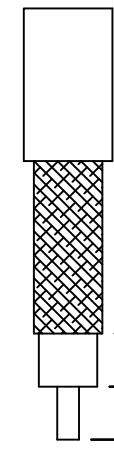
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EDITION

CONTACT: .068" HEX CRIMP TOOL

FERRULE: .178" HEX CRIMP TOOL

STRIPPING DIMENSIONS



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Flexible RG316 Coax Cable Double Shielded with Tan FEP Jacket

TECHNICAL DATA SHEET

RG316-DS

Flexible RG316 Coax Cable Double Shielded with Tan FEP Jacket

Configuration

| | |
|--------------------------------------|--------------------------------------------------------|
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type | PTFE |
| Shield Materials | Silver Plated Copper Braid, Silver Plated Copper Braid |
| Jacket Material and Color | FEP, Tan |

Electrical Specifications

| | |
|----------------------------------|--------------|
| Impedance, Ohms | 50 |
| Velocity of Propagation, % | 70 |
| Maximum Operating Frequency, GHz | 3 |
| Capacitance, pF/ft [pF/m] | 29.4 [96.46] |
| Maximum Operating Voltage, Volts | 1,200 |

Electrical Specifications by Frequency

Frequency 1

| | |
|---------------------------------|-----------|
| Frequency, MHz | 100 |
| Attenuation, dB/100ft [dB/100m] | 8 [26.25] |

Frequency 2

| | |
|---------------------------------|--------------|
| Frequency, MHz | 400 |
| Attenuation, dB/100ft [dB/100m] | 16.2 [53.15] |

Frequency 3

| | |
|---------------------------------|--------------|
| Frequency, MHz | 1000 |
| Attenuation, dB/100ft [dB/100m] | 26.1 [85.63] |

Frequency 4

| | |
|---------------------------------|---------------|
| Frequency, GHz | 3 |
| Attenuation, dB/100ft [dB/100m] | 46.7 [153.22] |

Mechanical Specifications

Temperature

| | |
|------------------------|-------------|
| Operating Range, deg C | -55 to +200 |
|------------------------|-------------|

Inner Conductor

| | |
|-------------------|-------------------|
| Number of Strands | 7 |
| Material | Copper Clad Steel |
| Plating | Silver |
| Diameter, in [mm] | 0.02 [0.51] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG316 Coax Cable Double Shielded with Tan FEP Jacket RG316-DS](#)

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Flexible RG316 Coax Cable Double Shielded with Tan FEP Jacket

TECHNICAL DATA SHEET

RG316-DS
Dielectric:

Type PTFE
Diameter, in [mm] 0.06 [1.52]

Shield:

Number of 2
Material 1 Silver Plated Copper Braid
Material 2 Silver Plated Copper Braid
Diameter, in [mm] 0.096 [2.44]

Jacket:

Material FEP
Diameter, in [mm] 0.114 [2.9]
Color Tan
One Time Minimum Bend Radius, in [mm] 0.59 [14.99]
Weight, lbs/ft [Kg/m] 0.016 [0.02]

Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant Yes

Plotted and Other Data

Notes: Values at 25 °C, sea level

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Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG316 Coax Cable Double Shielded with Tan FEP Jacket RG316-DS](#)

URL: <http://www.pasternack.com/flexible-0.114-rg316-ds-50-ohm-coax-cable-fep-jacket-rg316-ds-p.aspx>

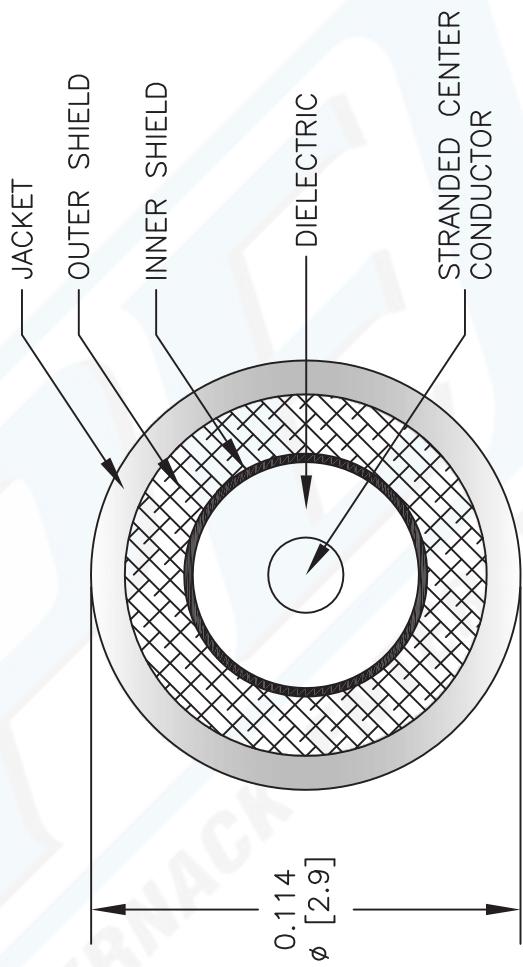
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RG316-DS CAD Drawing

Flexible RG316 Coax Cable Double Shielded with Tan FEP Jacket



RG316/DS



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DWG TITLE

RG316-DS

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CAD FILE 041812-B

SCALE N/A

SIZE A

2233