



TNC Male Connector Crimp/Crimp Attachment  
for RG188-DS, RG316-DS

TECHNICAL DATA SHEET

PE45161

**Configuration**

Connector	TNC Male
Connector Specification	MIL-STD-348A
Connector Interface Type	RG188-DS, RG316-DS
Attachment Method (Shield/Contact)	Crimp/Crimp
Body Style	Straight

**Electrical Specifications**

Frequency Range	DC to 4 GHz
Impedance	50 Ohms
Maximum Operating Voltage	500 Volts
Dielectric Withstanding Voltage	1,500 Vrms

**Frequency 1**

Frequency	DC to 500 MHz
VSWR	1.35:1

**Mechanical Specifications**

**Temperature**

Operating Range	-65 to +165 deg C
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**Size**

Length	1.2 in [30.48 mm]
Width/Dia.	0.591 in [15.01 mm]
Weight	0.027 lbs [12.25 g]

**Connector**

Type	TNC Male
Contact Material and Plating	Brass, Gold
Contact Plating Specification	30µ in. minimum
Body Material and Plating	Brass, Nickel
Body Plating Specification	100µ in. minimum
Dielectric Type	Teflon

**Compliance Certifications** (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

RoHS Compliant	
REACH Compliant	06/18/2012

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Male Connector Crimp/Crimp Attachment for RG188-DS, RG316-DS PE45161](#)



## TNC Male Connector Crimp/Crimp Attachment for RG188-DS, RG316-DS

### TECHNICAL DATA SHEET

PE45161

#### Plotted and Other Data

Notes:

- Values at +25 °C, sea level

TNC Male Connector Crimp/Crimp 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Male Connector Crimp/Crimp Attachment for RG188-DS, RG316-DS PE45161](http://www.pasternack.com/tnc-male-rg188-ds-rg316-ds-connector-pe45161-p.aspx)

URL: <http://www.pasternack.com/tnc-male-rg188-ds-rg316-ds-connector-pe45161-p.aspx>

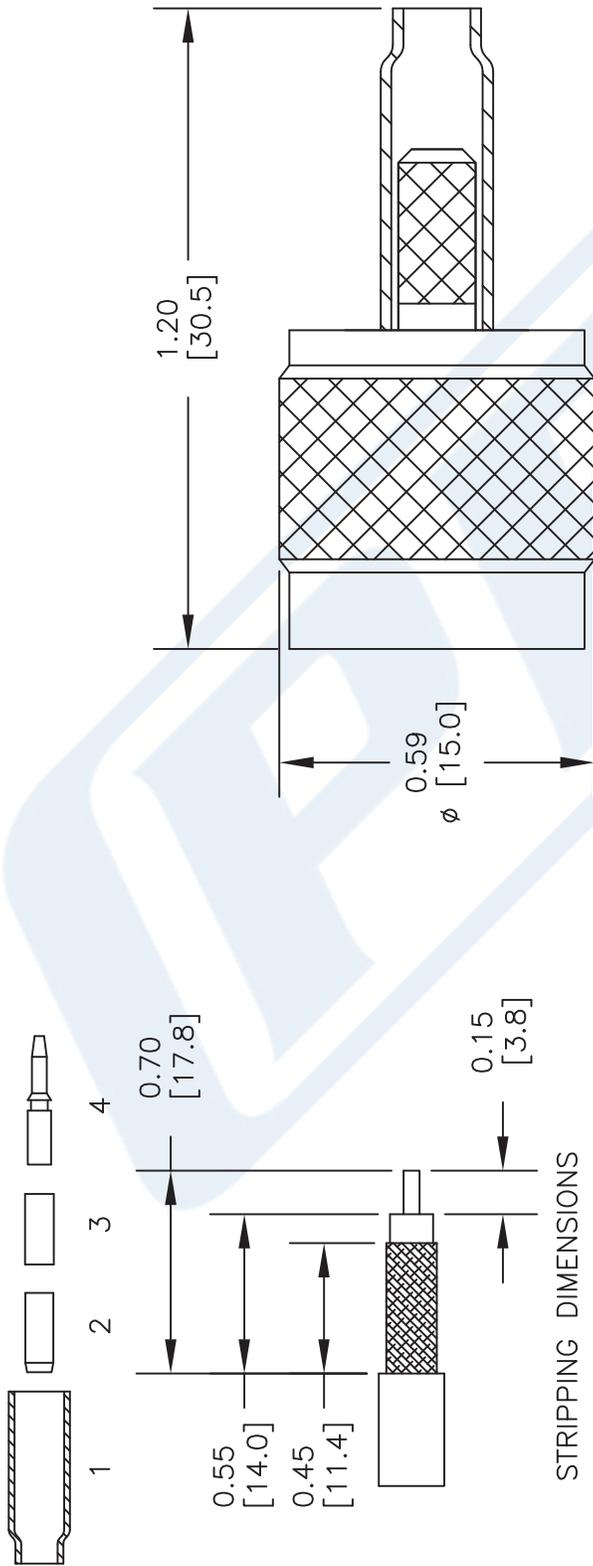
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such 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.

# PE45161 CAD Drawing

TNC Male Connector Crimp/Crimp Attachment for RG188-DS, RG316-DS

## 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.



## STRIPPING DIMENSIONS

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.

## CRIMP SIZES REQUIRED

CONTACT: .068" HEX CRIMP TOOL  
 FERRULE: .178" HEX CRIMP TOOL



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

**PE45161**

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. FITS MIL-C-17 AND EQUIVALENT CABLES.

FSCM NO. 53919

CAD FILE 031815

SCALE N/A

SIZE A

2233



## SMA Male Right Angle Connector Solder Attachment for RG188-DS, RG316-DS

### RF Connectors Technical Data Sheet

PE4409

#### Configuration

- SMA Male Connector
- MIL-STD-348A
- 50 Ohms
- Right Angle Body Geometry
- RG188-DS, RG316-DS Interface Type
- Solder/Solder Attachment
- 5/16 inch Hex

#### Features

- Max. Operating Frequency 3 GHz
- Good VSWR of 1.4:1
- Gold Plated Brass Contact
- 50 µin minimum contact plating

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE4409 SMA male right angle connector with solder/solder attachment for RG188-DS and RG316-DS is part of our full line of RF components available for same-day shipping. Our SMA male connector operates up to a maximum frequency of 3 GHz and offers good VSWR of 1.4:1. Its right angle body geometry allows for easier connections in tight spaces.

Our SMA male right angle connector PE4409 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		3	GHz
VSWR			1.4:1	
Operating Voltage (AC)			335	Vrms

#### Mechanical Specifications

##### Size

Length	0.673 in [17.09 mm]
Width/Dia.	0.312 in [7.92 mm]
Height	0.731 in [18.57 mm]
Weight	0.013 lbs [5.9 g]
Mating Torque	3 to 5 in-lbs [0.34 to 0.57 Nm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Right Angle Connector Solder Attachment for RG188-DS, RG316-DS PE4409](#)



SMA Male Right Angle Connector Solder Attachment for RG188-DS, RG316-DS

RF Connectors Technical Data Sheet

PE4409

**Material Specifications**

Description	Material	Plating
Contact	Brass	Gold 50 µin minimum
Insulation	PTFE	
Body	Brass	Nickel 100 µin minimum
Coupling Nut	Brass	Nickel 100 µin minimum

**Environmental Specifications**

**Temperature**

Operating Range

-40 to +85 deg C

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

**Plotted and Other Data**

Notes:

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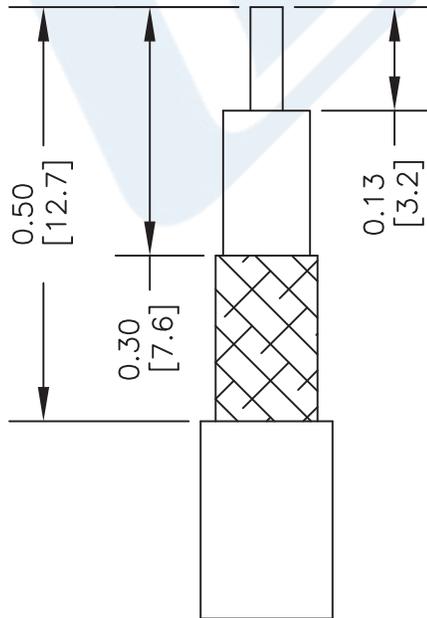
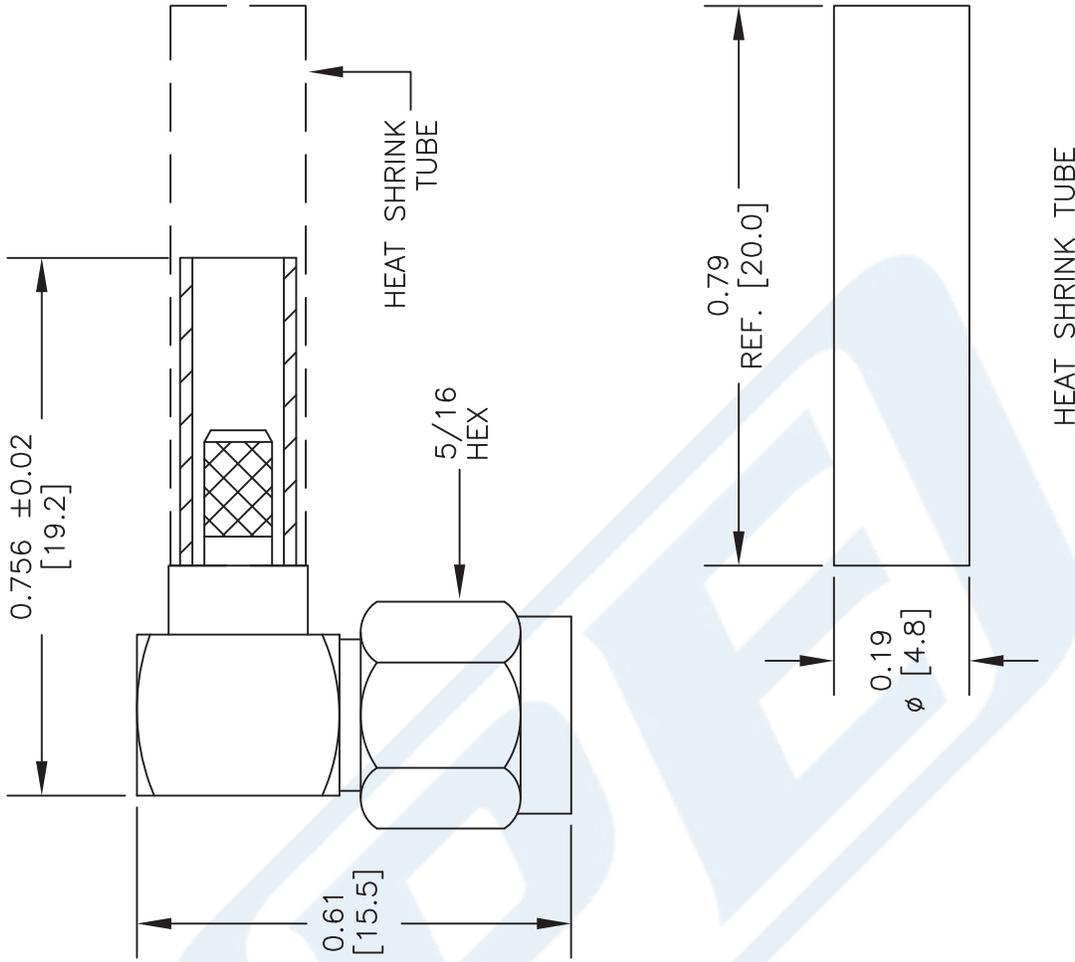
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Right Angle Connector Solder Attachment for RG188-DS, RG316-DS PE4409](#)

URL: <https://www.pasternack.com/sma-male-standard-rg188-ds-rg316-ds-connector-pe4409-p.aspx>

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# PE4409 CAD Drawing

SMA Male Right Angle Connector Solder Attachment for RG188-DS, RG316-DS



## STRIPPING DIMENSIONS

## ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN & SLIDE FERRULE OVER CABLE.
2. INSTALL CABLE INTO BODY OF CONNECTOR AND SOFT SOLDER CENTER CONDUCTOR IN PLACE.
3. SOLDER FERRULE & PRESS CAP DOWN.

DWG TITLE

**PE4409**

- NOTES:
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  2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
  3. DIMENSIONS ARE IN INCHES [mm].
  4. FITS MIL-C-17 AND EQUIVALENT CABLES.

FSCM NO. 53919

CAD FILE 081313

SCALE N/A

SIZE A

2233

**PE PASTERNAK®**

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# Flexible RG316-DS Coax Cable Double Shielded with Tan FEP Jacket

## RF Cables Technical Data Sheet

RG316-DS

### Configuration

- Flexible Cable
- 2 Shield(s)

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
Impedance		50		Ohms
Velocity of Propagation		70		%
Operating Voltage (AC)			1,200	Vrms
Nominal Capacitance		29.4 [96.46]		pF/ft [pF/m]

### Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.4	1	3		GHz
Attenuation, Typ	11.5	17.2	30	54.5		dB/100ft
	37.73	56.43	98.43	178.81		dB/100m
Input Power (CW), Max	430	210	130			Watts

### Mechanical Specifications

Diameter	0.114 in [2.9 mm]
Weight	0.015 lbs/ft [0.02 Kg/m]
Min. Bend Radius (Repeated)	0.591 in [15.01 mm]

### Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver7	0.02 in 0.51 mm
Conductor Type	Stranded	
Dielectric	PTFE	0.06 in 1.52 mm
First Shield	Silver Plated Copper Braid	

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

Flexible RG316-DS Coax Cable Double  
Shielded with Tan FEP Jacket

RF Cables  
Technical Data Sheet

RG316-DS

Second Shield	Silver Plated Copper Braid	0.094 in 2.39 mm
Jacket	FEP, Tan	0.114 in [2.9 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 RG316-DS Coax Cable Double Shielded with Tan FEP 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 RG316-DS Coax Cable Double Shielded with Tan FEP Jacket RG316-DS](#)

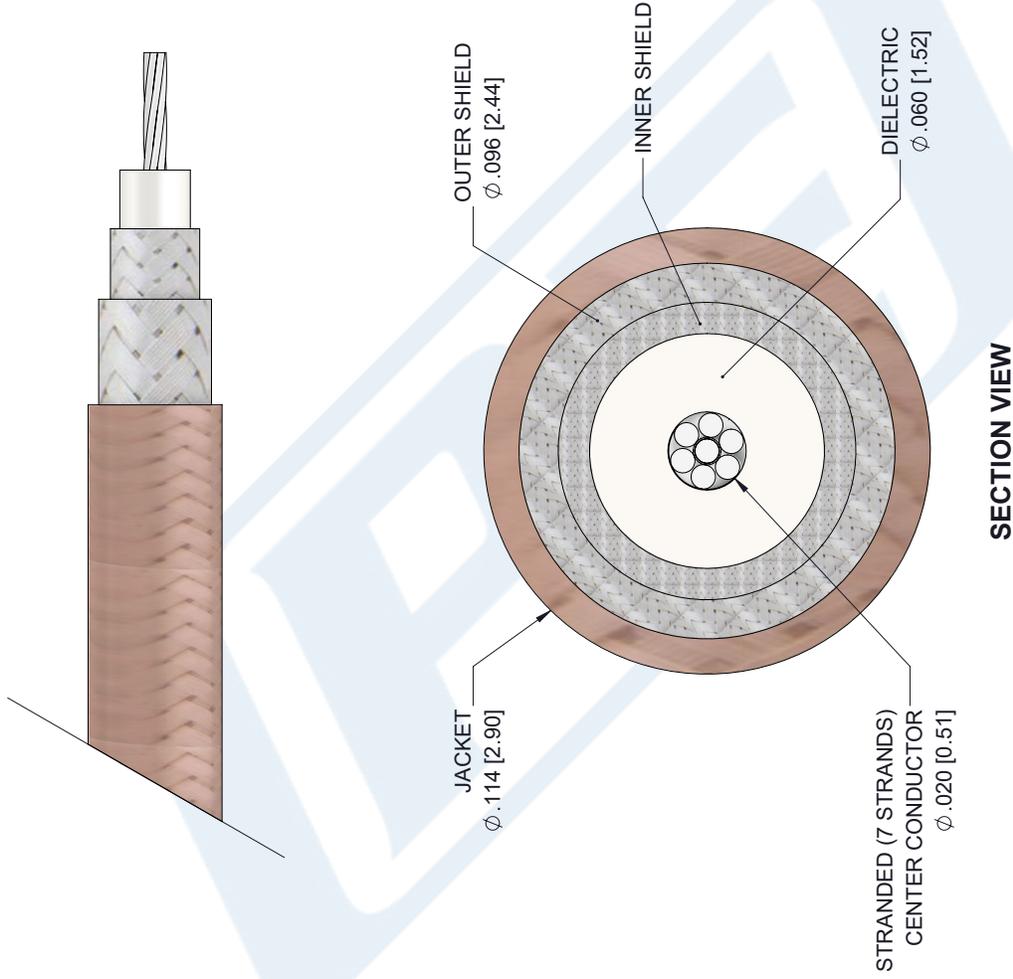
URL: <https://www.pasternack.com/flexible-0.114-rg316-ds-50-ohm-coax-cable-fep-jacket-rg316-ds-p.aspx>

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# RG316-DS CAD Drawing

Flexible RG316-DS Coax Cable Double Shielded with Tan FEP Jacket

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
1.1	PCR RG316-DS 20190701	07/15/19	S.ELLIS



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS	
TOLERANCES:	FRACTIONS
X±.2 [5.08]	±.132
.XX±.01 [.25]	±.132
.XXX±.005 [.13]	ANGLES ± 1°
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	
THIRD-ANGLE PROJECTION	

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SIZE [CAGE] DRAWN BY PART NUMBER REV  
A 53919 K.Dang RG316-DS A

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SHEET 1	OF 1
SCALE N/A	

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