



## 10-32 Male Connector Crimp/Solder Attachment for RG188-DS, RG316-DS

### RF Connectors Technical Data Sheet

PE45170

#### Configuration

- 10-32 Male Connector
- 50 Ohms
- Straight Body Geometry
- RG188-DS, RG316-DS Interface Type
- Crimp/Solder Attachment
- 1/4 in. Hex

#### Features

- Max. Operating Frequency 2 GHz
- Good VSWR of 1.3:1
- Gold Plated Brass Contact
- 30 $\mu$  in. minimum contact plating

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE45170 10-32 male 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 10-32 male connector operates up to a maximum frequency of 2 GHz and offers good VSWR of 1.3:1.

Our 10-32 male connector PE45170 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		2	GHz
VSWR			1.3:1	
Operating Voltage (AC)			335	Vrms
Dielectric Withstanding Voltage (AC)			750	Vrms

#### Mechanical Specifications

##### Size

Length	1.25 in [31.75 mm]
Width/Dia.	0.26 in [6.60 mm]
Weight	0.011 lbs [4.99 g]
Mating Torque	3 in-lbs 0.34 Nm

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [10-32 Male Connector Crimp/Solder Attachment for RG188-DS, RG316-DS PE45170](#)



## 10-32 Male Connector Crimp/Solder Attachment for RG188-DS, RG316-DS

### RF Connectors Technical Data Sheet

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#### Material Specifications

Description	Material	Plating
Contact	Brass	Gold 30μ in. minimum
Insulation	Teflon	
Body	Brass	Nickel 100μ in. minimum
Coupling Nut	Brass	Nickel 100μ in. minimum

#### Environmental Specifications

##### Temperature

Operating Range

-65 to +125 deg C

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

#### Plotted and Other Data

Notes:

10-32 Male 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 99.4% 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: [10-32 Male Connector Crimp/Solder Attachment for RG188-DS, RG316-DS PE45170](#)

URL: <https://www.pasternack.com/10-32-male-rg188-ds-rg316-ds-connector-pe45170-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.

# PE45170 CAD Drawing

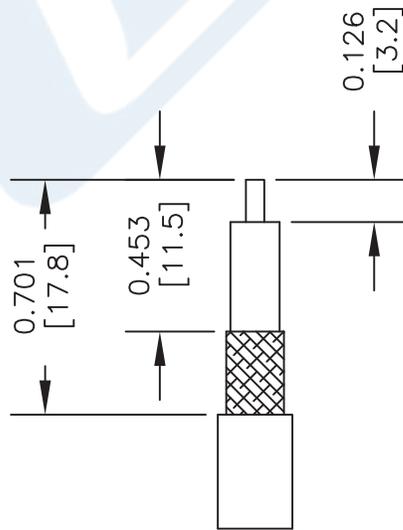
10-32 Male Connector Crimp/Solder Attachment for RG188-DS, RG316-DS

## ASSEMBLY PROCEDURES



1

1. STRIP CABLE AS SHOWN & SLIDE FERRULE (1) ONTO CABLE. TIN CENTER CONDUCTOR.

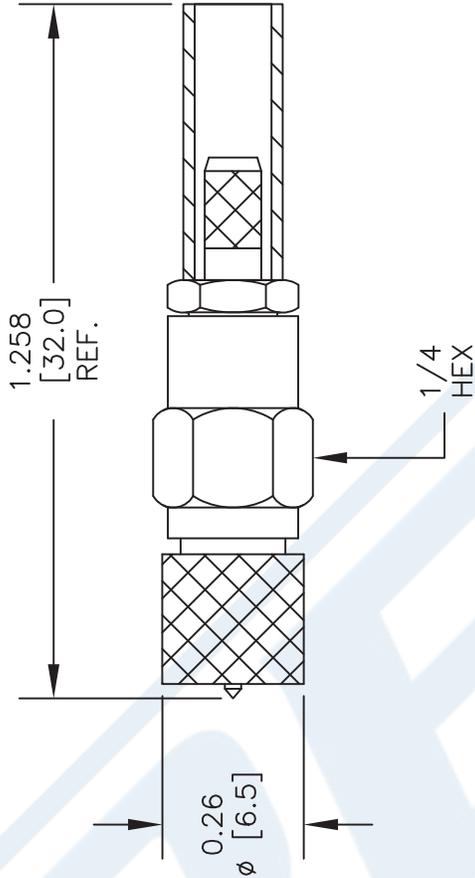


2. ADD EXTENSION (2) BY SLIDING EXTENSION BETWEEN BRAID & DIELECTRIC. SLIDE FERRULE OVER BRAID & CRIMP.

3. SOLDER CENTER CONDUCTOR THROUGH HOLE IN CONTACT. SLIDE ASSEMBLY INTO BODY & TIGHTEN.

## CRIMP SIZE REQUIRED

FERRULE: .151" HEX CRIMP TOOL



DWG TITLE

**PE45170**

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.

CAGE CODE 53919

CAD FILE 041117

SCALE N/A

SIZE A

2233



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BNC Male Connector Crimp/Solder Attachment  
for RG316-DS, RG188-DS Up to 4GHz

TECHNICAL DATA SHEET

PE45114

**Configuration**

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

**Electrical Specifications**

Frequency Range	DC to 4 GHz
Impedance	50 Ohms
Maximum Operating Voltage	335 Volts

**Frequency 1**

Frequency	DC to 3 GHz
VSWR	1.25:1

**Mechanical Specifications**

**Temperature**

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

Length	1.11 in [28.19 mm]
Width/Dia.	0.57 in [14.48 mm]

**Connector**

Type	BNC Male
Contact Material and Plating	Brass, Gold
Contact Plating Specification	50µ in. minimum
Coupling Nut Material and Plating	Brass, Nickel
Coupling Nut Plating Specification	100µ 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

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Male Connector Crimp/Solder Attachment for RG316-DS, RG188-DS Up to 4GHz PE45114](#)



## BNC Male Connector Crimp/Solder Attachment for RG316-DS, RG188-DS Up to 4GHz

### TECHNICAL DATA SHEET

PE45114

#### Plotted and Other Data

Notes:

- Values at +25 °C, sea level

BNC Male Connector Crimp/Solder Attachment for RG316-DS, RG188-DS Up to 4GHz 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.

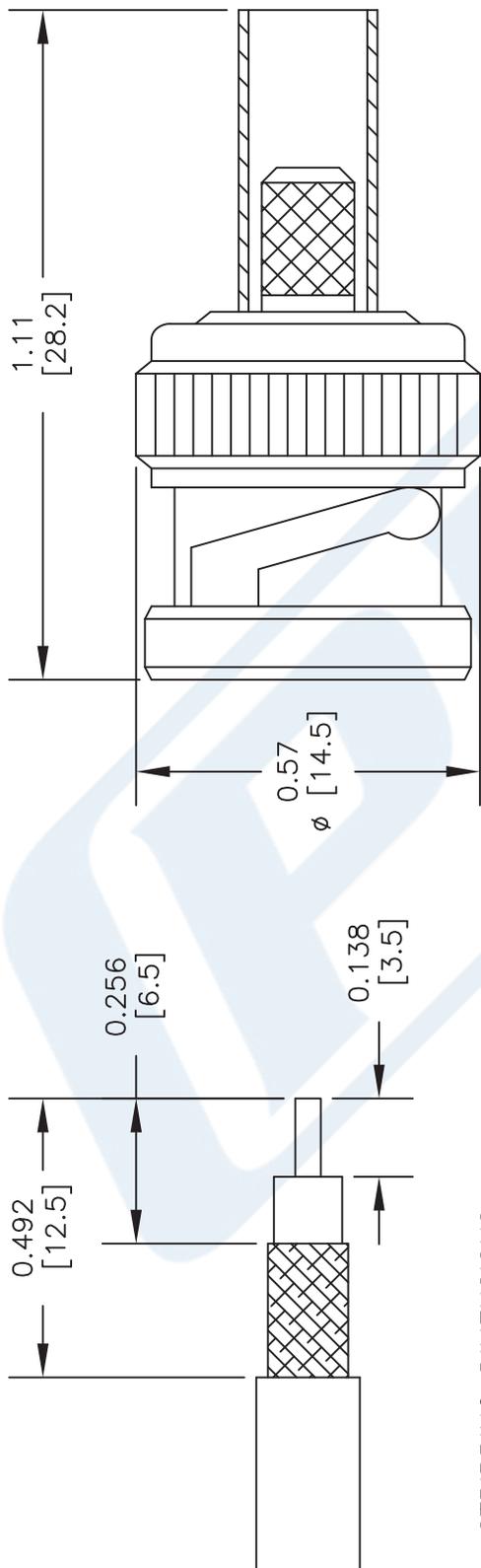
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Male Connector Crimp/Solder Attachment for RG316-DS, RG188-DS Up to 4GHz PE45114](http://www.pasternack.com/bnc-male-rg316-ds-rg188-ds-connector-pe45114-p.aspx)

URL: <http://www.pasternack.com/bnc-male-rg316-ds-rg188-ds-connector-pe45114-p.aspx>

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# PE45114 CAD Drawing

BNC Male Connector Crimp/Solder Attachment for RG316-DS, RG188-DS Up to 4GHz



STRIPPING DIMENSIONS

CRIMP SIZE REQUIRED

CONTACT: SOLDER  
 FERRULE: 0.151" HEX. CRIMP TOOL

DWG TITLE

**PE45114**

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 4. FITS MIL-C-17 AND EQUIVALENT CABLES.

FSCM NO. 53919

CAD FILE 012815

SCALE N/A

SIZE A

2233



THE ENGINEER'S RF SOURCE

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## 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
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**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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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](http://www.Pasternack.com) for current document)

RoHS Compliant Yes

**Plotted and Other Data**

Notes: Values at 25 °C, sea level

Flexible RG316 Coax Cable Double Shielded with Tan FEP Jacket from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

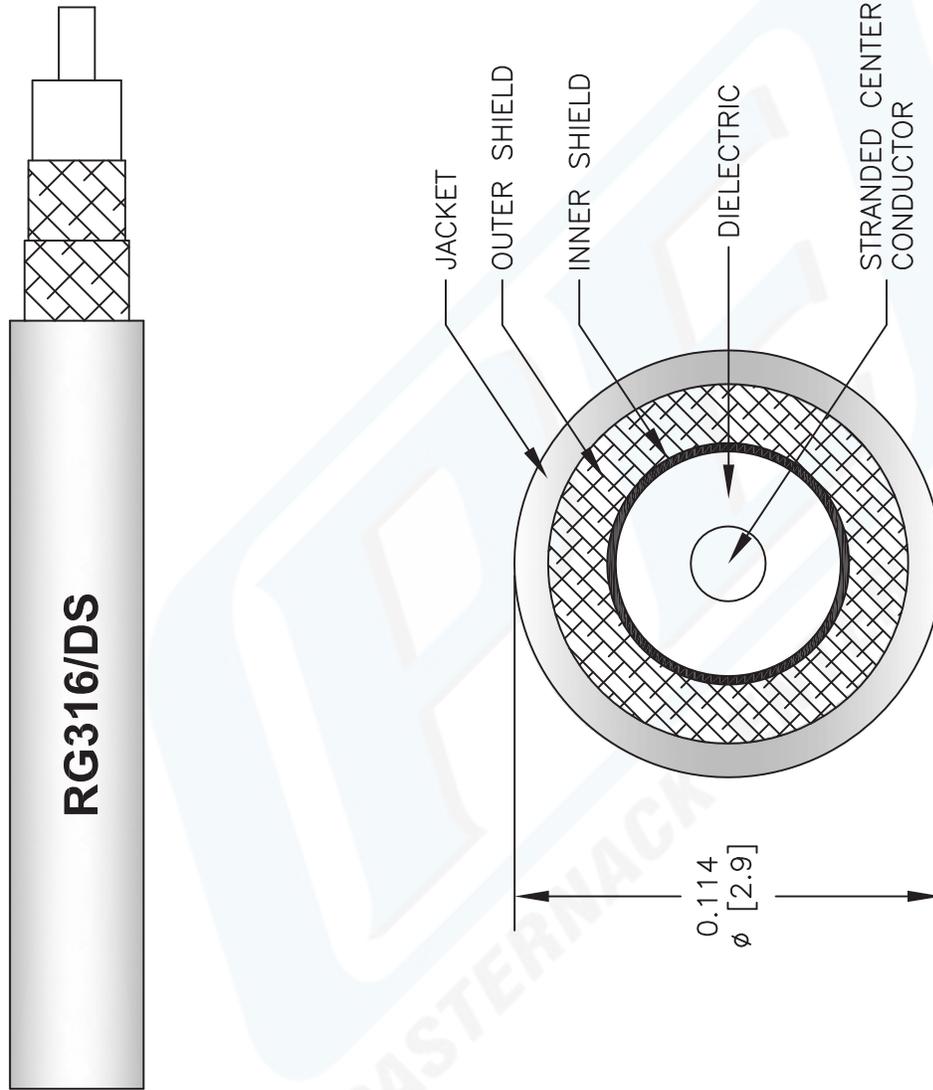
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG316 Coax Cable Double Shielded with Tan FEP Jacket RG316-DS](#)

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



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DWG TITLE <b>RG316-DS</b>		CAD FILE 041812-B	SCALE N/A	SIZE A	2233
FSCM NO. 53919					


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