



## SMA Male Connector Crimp/Solder Attachment for RG174, RG316, RG188 Gold Plated

### RF Connectors Technical Data Sheet

PE45145

#### Configuration

- SMA Male Connector
- 50 Ohms
- Straight Body Geometry
- RG174, RG316, RG188 Interface Type
- Crimp/Solder Attachment
- 5/16 in Hex

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12.4	GHz

#### Mechanical Specifications

Size	
Length	0.654 in [16.61 mm]
Weight	0.01 lbs [4.54 g]
Mating Torque	5 in-lbs [0.57 Nm]

#### Material Specifications

Description	Material	Plating
Contact	Brass	Gold
Insulation	PTFE	
Body	Brass	Gold
Coupling Nut	Brass	Gold

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Connector Crimp/Solder Attachment for RG174, RG316, RG188 Gold Plated PE45145](#)



## SMA Male Connector Crimp/Solder Attachment for RG174, RG316, RG188 Gold Plated

### RF Connectors Technical Data Sheet

PE45145

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

#### Plotted and Other Data

Notes:

SMA Male Connector Crimp/Solder Attachment for RG174, RG316, RG188 Gold Plated 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.

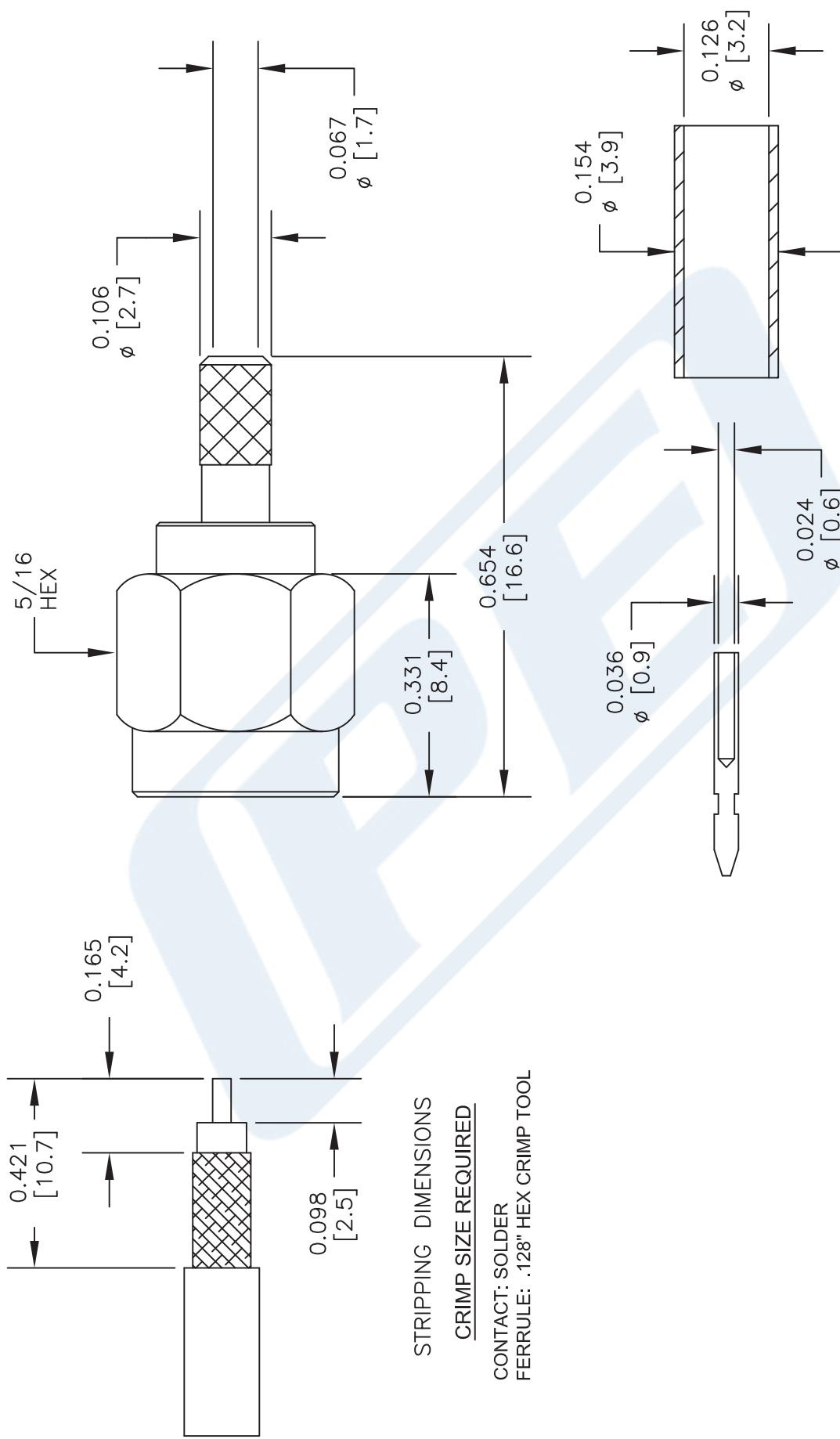
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Connector Crimp/Solder Attachment for RG174, RG316, RG188 Gold Plated PE45145](#)

URL: <https://www.pasternack.com/sma-male-rg174-rg316-rg188-connector-pe45145-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.

# PE45145 CAD Drawing

SMA Male Connector Crimp/Solder Attachment for RG174, RG316, RG188 Gold Plated

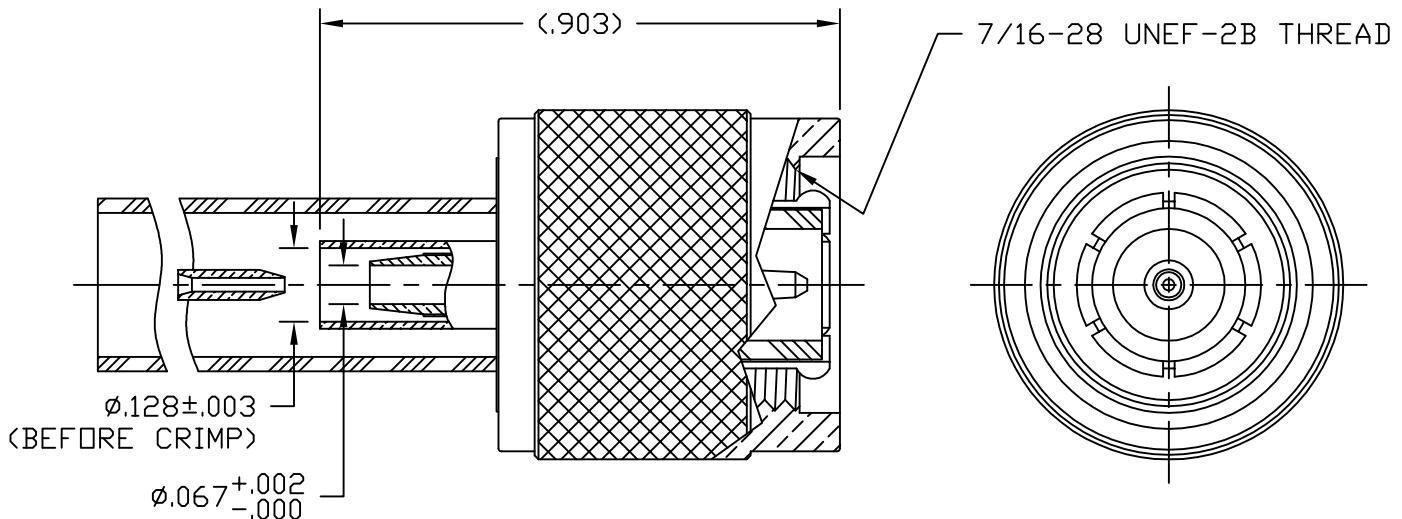


NOTES:  
 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  
 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  
 3. DIMENSIONS ARE IN INCHES [mm].  
 4. FITS MIL-C-17 AND EQUIVALENT CABLES.

DWG TITLE	PE45145	CAD FILE	012815	SCALE	N/A	SIZE	A	150
PASTERNAK® THE ENGINEER'S RF SOURCE	PASTERNAK® THE ENGINEER'S RF SOURCE	Pasternak Enterprises, Inc. P.O. Box 16759   Irvine   CA   92623 Phone: (949) 261-1920   Fax: (949) 261-7451 Website: <a href="http://www.pasternak.com">www.pasternak.com</a>   E-Mail: <a href="mailto:sales@pasternak.com">sales@pasternak.com</a>						

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SYM	REVISION DESCRIPTION	DFTM	DATE	APPD	DATE
-	RELEASED FOR PRODUCTION	J. C. L.	8/20/03	J. C. L.	8/20/03
A	CHANGED PER CDC #36704	D. J. H.	1/14/13	J. D. B.	1/15/13



NOTES:

1. ASSEMBLED CONNECTOR INTERFACE IS DESIGNED IN ACCORDANCE WITH MIL-STD-348.
2. MATERIAL: BODY & NUT - BRASS PER ASTM B16.  
CONTACT FINGERS & CONTACTS - BERYLLIUM COPPER PER ASTM B196.  
INSULATOR - TEFLON PER ASTM D1710.  
CRIMP SLEEVE - D.H.P. COPPER CDA ALLOY 122.  
RETAINING RING - PHOSPHOR BRONZE PER QQ-B-750.  
GASKET - SILICONE RUBBER PER ZZ-R-765.  
SHRINK SLEEVE - SHRINKABLE POLYOLEFIN PER MIL-I-23053/5.
3. FINISHES: RETAINING RING - NOT PLATED.  
CONTACTS - GOLD PLATE PER MIL-G-45204.  
ALL OTHER METAL PARTS - SILVER PLATE PER QQ-S-365.
4. CONTACT PIN IS SOLDERED.
5. CRIMP THE FERRULE TO .128" HEX.

MATERIAL:	UNLESS OTHERWISE SPECIFIED		DFTM: J. C. L. DATE: 8/20/03	TIME MICROWAVE SYSTEMS
	ALL DIMENSIONS ARE IN INCHES MACHINED SURFACES FINISH N/A RMS MAX. REMOVE ALL BURRS .005 MAX. BREAK MACHINE CORNERS .005 MAX. FILLET R. TOLERANCES ON DECIMALS .XX ± .03 .XXX ± .005 ANGLES ± 1° FRACTIONS ± 1/32			
USED ON: _			CHKD: J. C. L. DATE: 8/20/03	TC-100-TM TNC MALE FOR LMR100 CABLE
			APPD: J. C. L. DATE: 8/20/03	
SCALE: N/A	DWG SIZE A	DO NOT SCALE DRAWING	CODE IDENT: 68999	DATE: 8/20/03 SHEET: 1 of 1 REV: A SD3190-1552

## Flexible RG316 Coax Cable Single Shielded with Tan FEP Jacket

### RF Cables Technical Data Sheet

**RG316/U**

#### Configuration

- Flexible Cable
- 1 Shield(s)

#### Features

- High Flexibility
- FEP Jacket
- Velocity of Propagation 69%

#### Applications

• General Purpose	• Wireless Systems	• High Flexibility Applications
• Antenna Feeds	• Indoor / Outdoor Uses	• Jumper Cable Assemblies
• Communication Systems	• High Temperature Applications	

#### Description

Flexible coaxial cable are ideal for applications where tight bends and continual flexure are required. Pasternack's RG316/U is a single shielded flexible coax cable with FEP jacket and compatible with a wide selection of connector types. This RG316/U coaxial cable has a stranded inner conductor for better flexibility and operates up to 3 GHz. The FEP jacket of this RG316/U coax cable makes it suitable for indoor/outdoor uses and high temperature applications. RG316/U datasheet specifications and outline drawing for this flexible cable are shown in the PDF below.

Pasternack carries a wide range of cables ready to ship same day to fit your needs. They are available in corrugated, flexible, formable or semi-rigid versions with different constructions of conductor materials, dielectric materials, shielding configurations and jacket materials. Our cables are designed to fit a wide range of performance criteria including attenuation, operating temperature, environmental factor, and power capability.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
Impedance		50		Ohms
Velocity of Propagation		69		%
Operating Voltage (AC)			900	Vrms
Dielectric Withstanding Voltage (AC)			2,000	Vrms
Jacket Spark			2,000	Vrms
Nominal Capacitance	29.4 [96.46]			pF/ft [pF/m]

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 Single Shielded with Tan FEP Jacket RG316/U](#)

## Flexible RG316 Coax Cable Single Shielded with Tan FEP Jacket

### RF Cables Technical Data Sheet

**RG316/U**

#### Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.05	0.1	0.4	1	3	GHz
Attenuation, Typ	7.5 24.61	11 36.09	21 68.9	38 124.67	58 190.29	dB/100ft dB/100m

#### Mechanical Specifications

Diameter	0.102 in [2.59 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 95% coverage	
Jacket	FEP, Tan	0.102 in [2.59 mm]

#### Environmental Specifications

Temperature	
Operating Range	-55 to +200 deg C

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## Flexible RG316 Coax Cable Single Shielded with Tan FEP Jacket

### RF Cables Technical Data Sheet

RG316/U

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

#### Plotted and Other Data

Notes:

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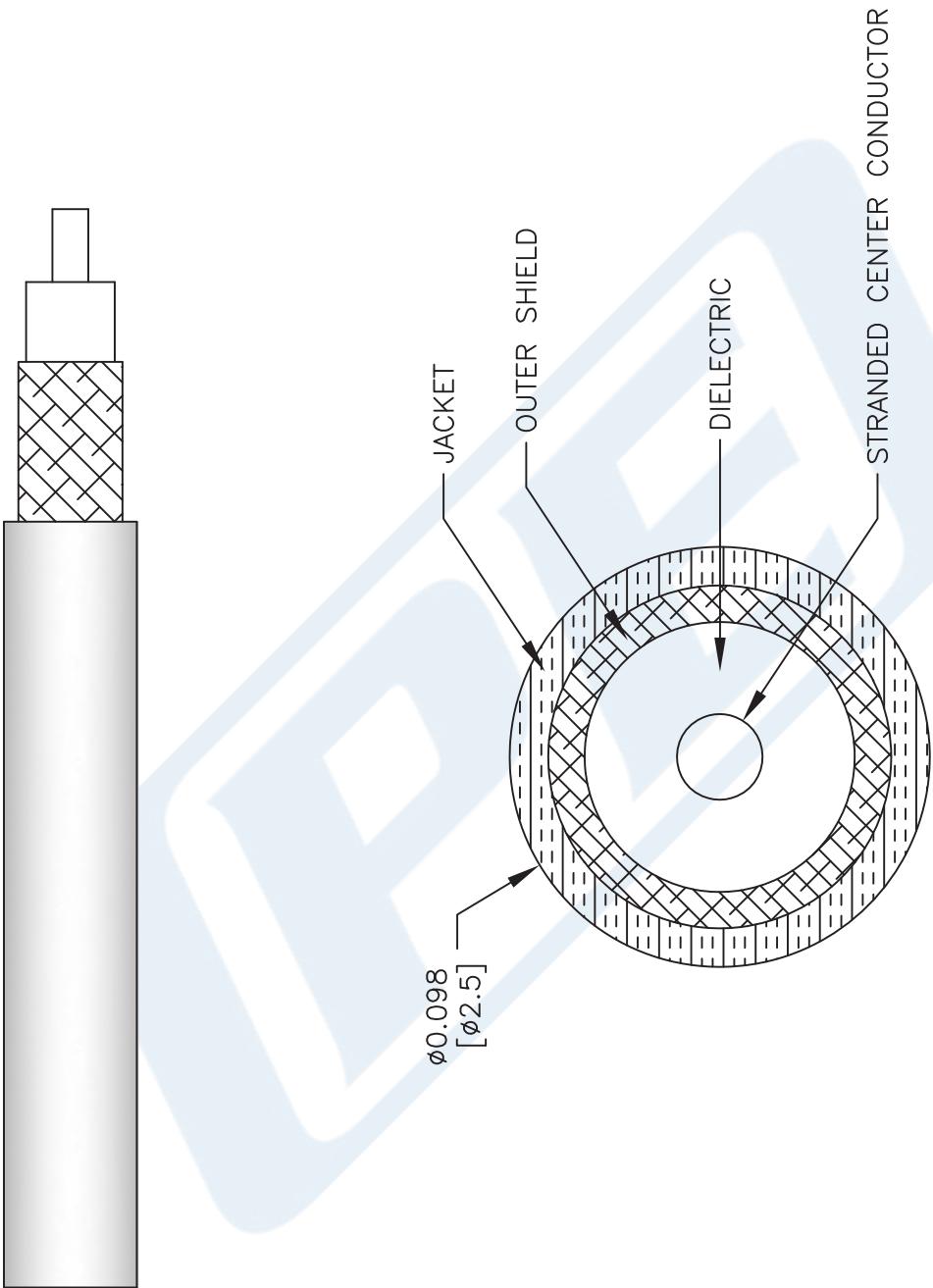
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URL: <https://www.pasternack.com/50-ohm-flexible-rg316u-fep-jacket-silver-plated-copper-braid-outer-conductor-single-shielded-tan-rg316-u-p.aspx>

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# RG316/U CAD Drawing

Flexible RG316 Coax Cable Single Shielded with Tan FEP Jacket



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DWG TITLE  
**RG316/U**

**PASTERNACK**  
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FSCM NO.	53919	CAD FILE	111716	SCALE	N/A	SIZE	A
							41742