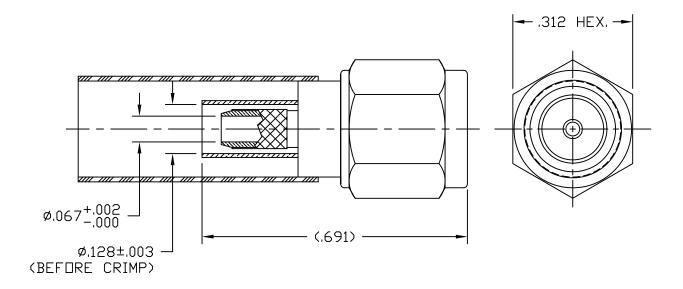
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MYZ	REVISION DESCRIPTION	DFTM	DATE	APPD	DATE
_	RELEASED FOR PRODUCTION	J. C. L.	8/20/03	J. C. L.	8/20/03
Α	CHANGED PER CDC #36704	D.J.H.	1/14/13	J.D.B.	1/15/13
В	CHANGED PER CDC #37206	J.D.B.	3/226/13	J.D.B.	3/26/13



NOTES:

- ASSEMBLED CONNECTOR INTERFACE IS DESIGNED IN ACCORDANCE WITH MIL-STD-348.
- MATERIAL: BODY & HEX COUPLING NUT- CORROSION RESISTANT STEEL PER ASTM A582. CONTACT - BERYLLIUM COPPER PER ASTM B196. INSULATOR - TEFLON PER ASTM D1710

GASKET - SILICONE RUBBER PER ZZ-R-765

SHRINK SLEEVE - SHRINKABLE POLYOLEFIN PER MIL-I-23053/5

FERRULE - D.H.P. COPPER CDA ALLOY 122

- 3. FINISHES: BODY & HEX COUPLING NUT PASSIVATE PER QQ-P-35 CONTACT - GOLD PLATE PER MIL-G-45204 FERRULE - SULFAMATE NICKEL PLATE
- CONTACT PIN IS SOLDERED.
- 5. CRIMP THE FERRULE TO .128" HEX.

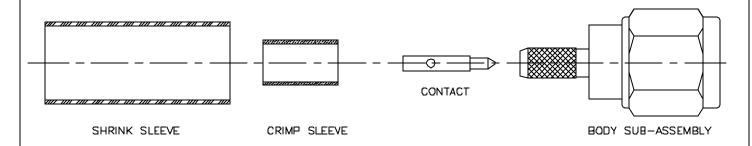
MATL:	UNLESS OTHERWISE SPECIFIED	DFTM. J. C. L.	TIMES MISDONAVE SYSTEMS
	ALL DIMENSIONS ARE IN INCHES MACHINED SURFACES FINISH N/A RMS MAX.	DATE 8/20/03	TIMES MICROWAVE SYSTEMS
	REMOVE ALL BURRS .005 MAX. BREAK MACHINE CORNERS .005 MAX. FILLET R.	CHKD. J. C. L.	TC-100-SM
USED DN: A	TOLERANCES ON DECIMALS	DATE 8/20/03	SMA MALE FOR
	. XX \pm .03 . XXX \pm .005 ANGLES \pm 1° FRACTIONS \pm 1/32	APPD. J. C. L.	LMR100 CABLE
SCALE: N/A DWG. A	DO NOT SCALE DRAWING CODE 68999	DATE 8/20/03	₽ 1 of 1 SD3190-1551 B

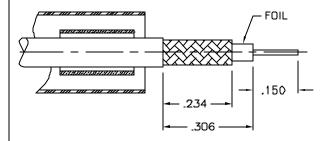


358 Hall Avenue/P.O. Box 5039 Wallingford, CT 06492-5039 Tel: 203-949-8400 FAX: 203-949-8423

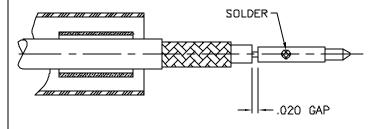
1-800-TMS-COAX www.timesmicrowave.com

INSTALLATION INSTRUCTIONS TC-100-SM (TIMES 3190-1551) (Cable Types: LMR-100)

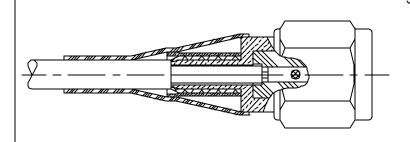




- 1) A. Trim cable to dimensions shown. Slide shrink sleeve & crimp sleeve back onto cable.
 - B. Remove any residual plastic from the center conductor and deburr center conductor using a fine file.



2) A. Slide contact onto center conductor leaving a .020 gap as shown and solder to center conductor. Use minimal heat to minimize melting of foam dielectric. Inspect to be sure aluminum foil is not touching center contact.



- 3) A. Insert cable into connnector until fully seated, with all braid wires on the outside of connector body and aluminum tape inside connector body.
 - B. Slide crimp sleeve forward and crimp as close as possible to body using a .128" hex die. Use Times HX—4 crimp tool or equivalent. Do not crimp rear of crimp sleeve.
 - C. Heat shrink weather seal over rear of connector body and down onto cable jacket using hot air gun.



SMC Plug Right Angle Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch



RF Connectors Technical Data Sheet

PE4051

Configuration

- SMC Plug Connector
- MIL-STD-348A
- 50 Ohms
- Right Angle Body Geometry

Features

- Max. Operating Frequency 4 GHz
- Good VSWR of 1.35:1

- RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch Interface Type
- Crimp/Solder Attachment
- 1/4 inch Hex
- Gold Plated Beryllium Copper Contact
- 30 µin minimum contact plating

Applications

• General Purpose Test

Custom Cable Assemblies

Description

Pasternack's PE4051 SMC plug right angle connector with crimp/solder attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100 and 0.100 inch is part of our full line of RF components available for same-day shipping. Our SMC plug connector operates up to a maximum frequency of 4 GHz and offers good VSWR of 1.35:1. Its right angle body geometry allows for easier connections in tight spaces.

Our SMC plug right angle connector PE4051 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			1.35:1	
Operating Voltage (AC)			335	Vrms

Mechanical Specifications

Size

 Length
 0.551 in [14 mm]

 Width/Dia.
 0.451 in [11.46 mm]

 Weight
 0.006 lbs [2.72 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: SMC Plug Right Angle Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch PE4051

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

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SMC Plug Right Angle Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch



RF Connectors Technical Data Sheet

PE4051

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold 30 µin minimum
Insulation	PTFE	
Body	Brass	Nickel 100 µin minimum
Coupling Nut	Brass	Nickel 100 µin minimum

Environmental Specifications

Temperature

Operating Range

-65 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

SMC Plug Right Angle Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch 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: SMC Plug Right Angle Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch PE4051

URL: https://www.pasternack.com/smc-plug-standard-rg174-rg316-rg188-connector-pe4051-p.aspx

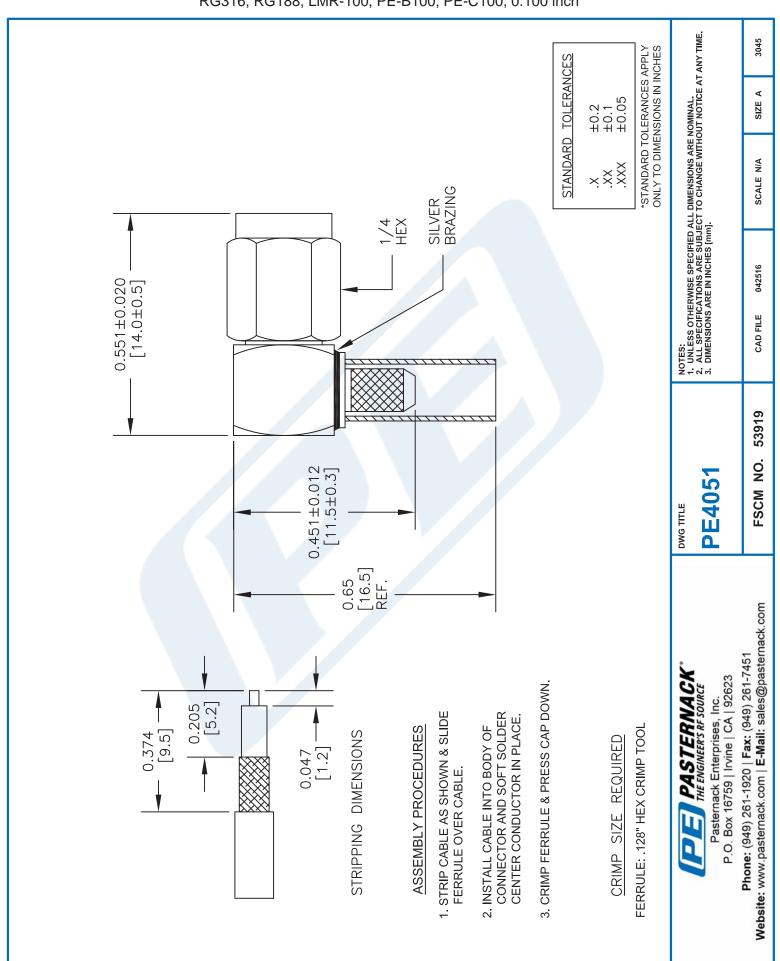
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such 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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PE4051 CAD Drawing

SMC Plug Right Angle Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch







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
- **Applications**
 - · General Purpose
 - Antenna Feeds
 - Communication Systems
- Wireless Systems
- Indoor / Outdoor Uses
- High Temperature Applications
- Velocity of Propagation 69%
 - High Flexibility Applications
 - Jumper Cable Assemblies

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

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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	11	21	38	58	dB/100ft
	24.61	36.09	68.9	124.67	190.29	dB/100m

Mechanical Specifications

Diameter Weight 0.102 in [2.59 mm] 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

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

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Flexible RG316 Coax Cable Single Shielded with Tan FEP Jacket

RF Cables Technical Data Sheet

RG316/L

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Flexible RG316 Coax Cable Single 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 Coax Cable Single Shielded with Tan FEP Jacket RG316/U

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

