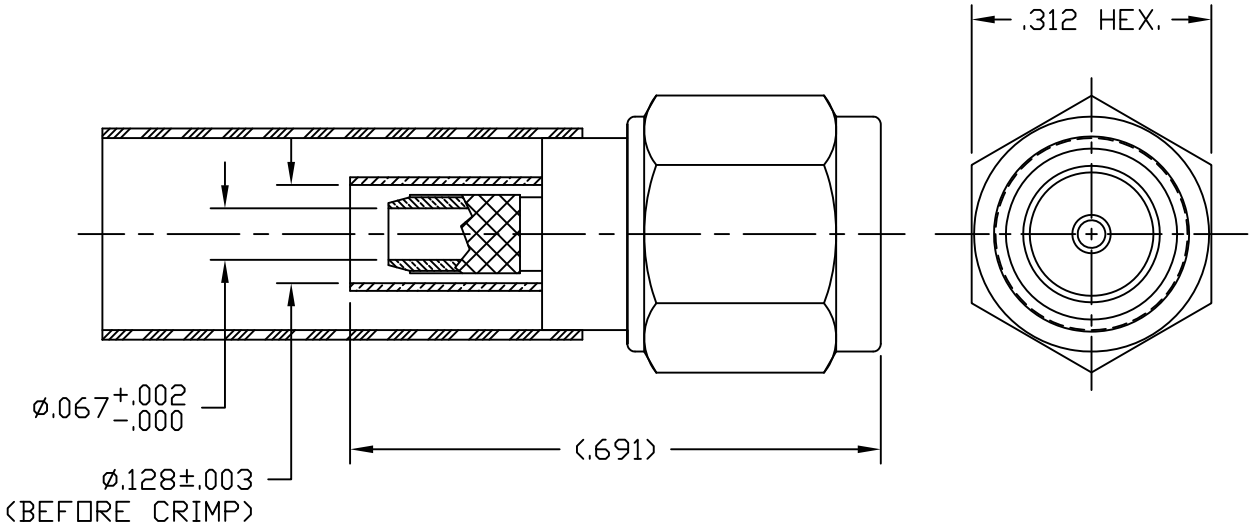
NOTICE OF PROPRIETARY RIGHTS THIS DOCUMENT CONTAINS CONFIDENTIAL TECHNICAL DATA, INCLUDING TRADE SECRETS, PROPRIETARY TO TIMES MICROWAVE SYSTEMS. DISCLOSURE OF THIS DATA IS EXPRESSLY CONDITIONED UPON YOUR ASSENT THAT ITS USE IS LIMITED TO USE WITHIN YOUR COMPANY ONLY. ANY OTHER USE IS STRICTLY PROHIBITED WITHOUT THE PRIOR WRITTEN CONSENT OF TIMES MICROWAVE SYSTEMS.

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
B	CHANGED PER CDC #37206	J.D.B.	3/226/13	J.D.B.	3/26/13



NOTES:

1. ASSEMBLED CONNECTOR INTERFACE IS DESIGNED IN ACCORDANCE WITH MIL-STD-348.

2. 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

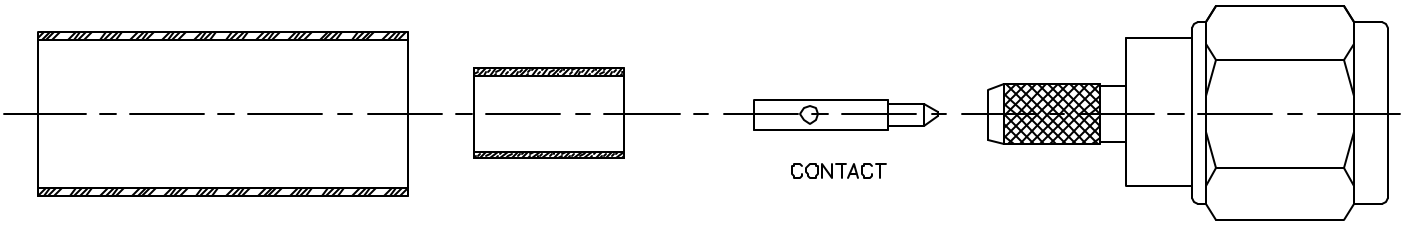
4. CONTACT PIN IS SOLDERED.

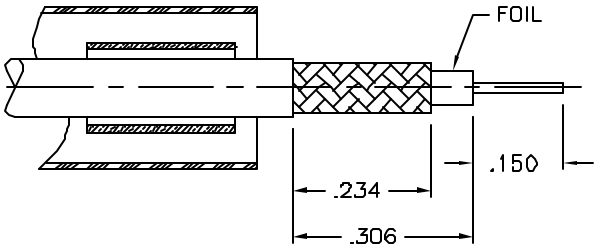
5. CRIMP THE FERRULE TO .128" HEX.

MATL:	UNLESS OTHERWISE SPECIFIED	DFTM. J. C. L.	TIMES 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	DATE 8/20/03 CHKD. J. C. L. DATE 8/20/03 APPD. J. C. L.	**TC-100-SM** SMA MALE FOR LMR100 CABLE
USED ON: A			
SCALE: N/A DWG. SIZE A	DO NOT SCALE DRAWING CODE IDENT 68999	DATE 8/20/03	SHT 1 of 1 SD3190-1551 REV B

TIMES MICROWAVE SYSTEMS
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

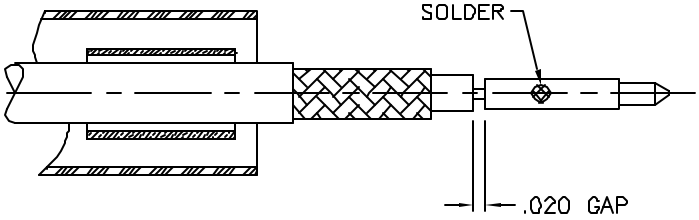
INSTALLATION INSTRUCTIONS
TC-100-SM (TIMES 3190-1551)
(Cable Types: LMR-100)



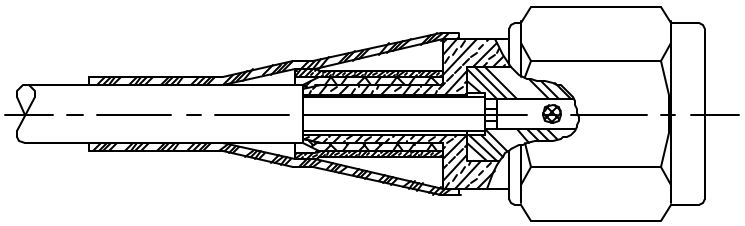


1) A. Trim cable to dimensions shown. Slide shrink sleeve & crimp sleeve back onto cable.

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.

CAI-498

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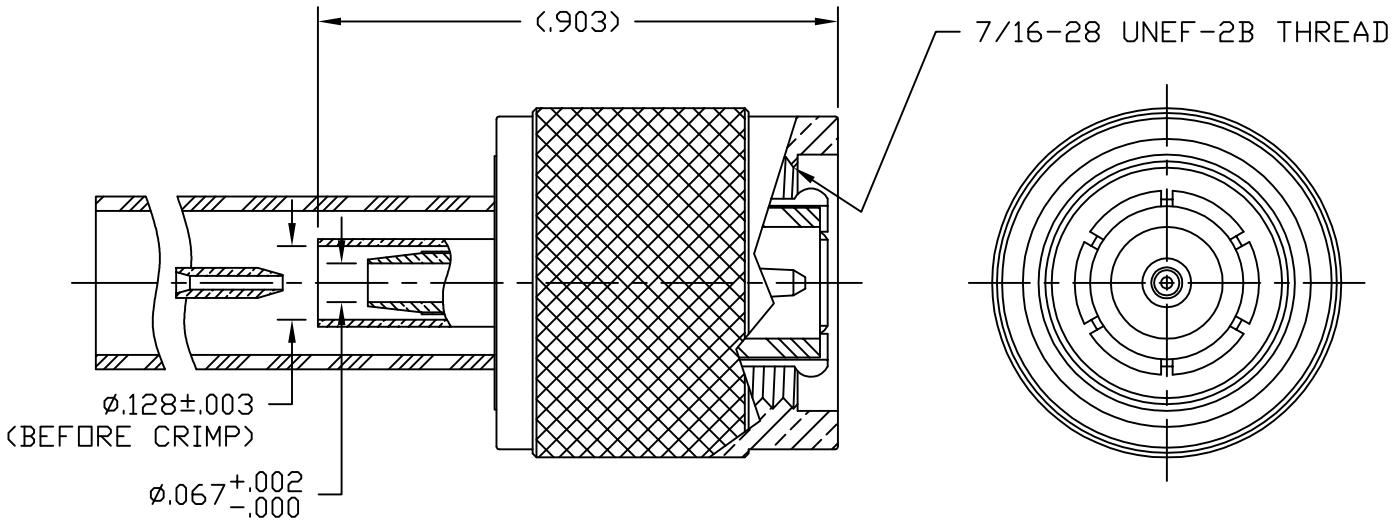
SYM	REVISION DESCRIPTION	DFTM	DATE	APPD	DATE
-	RELEASED FOR PRODUCTION	J.C.L.	8/20/03	J.C.L.	8/20/03
A	CHANGED PER CDC #36704	D.J.H.	1/14/13	J.D.B.	1/15/13



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.

MATL:	UNLESS OTHERWISE SPECIFIED	DFTM. J. C. L.	TIMES 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	DATE 8/20/03 CHKD. J. C. L. DATE 8/20/03 APPD. J. C. L.	**TC-100-TM** TNC MALE FOR LMR100 CABLE
USED ON: -			
SCALE: N/A DWG. SIZE A	DO NOT SCALE DRAWING CODE IDENT 68999	DATE 8/20/03	SHT 1 of 1 SD3190-1552 REV A

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
- Antenna Feeds
- Communication Systems
- Wireless Systems
- Indoor / Outdoor Uses
- High Temperature Applications
- 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

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

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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	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

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

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

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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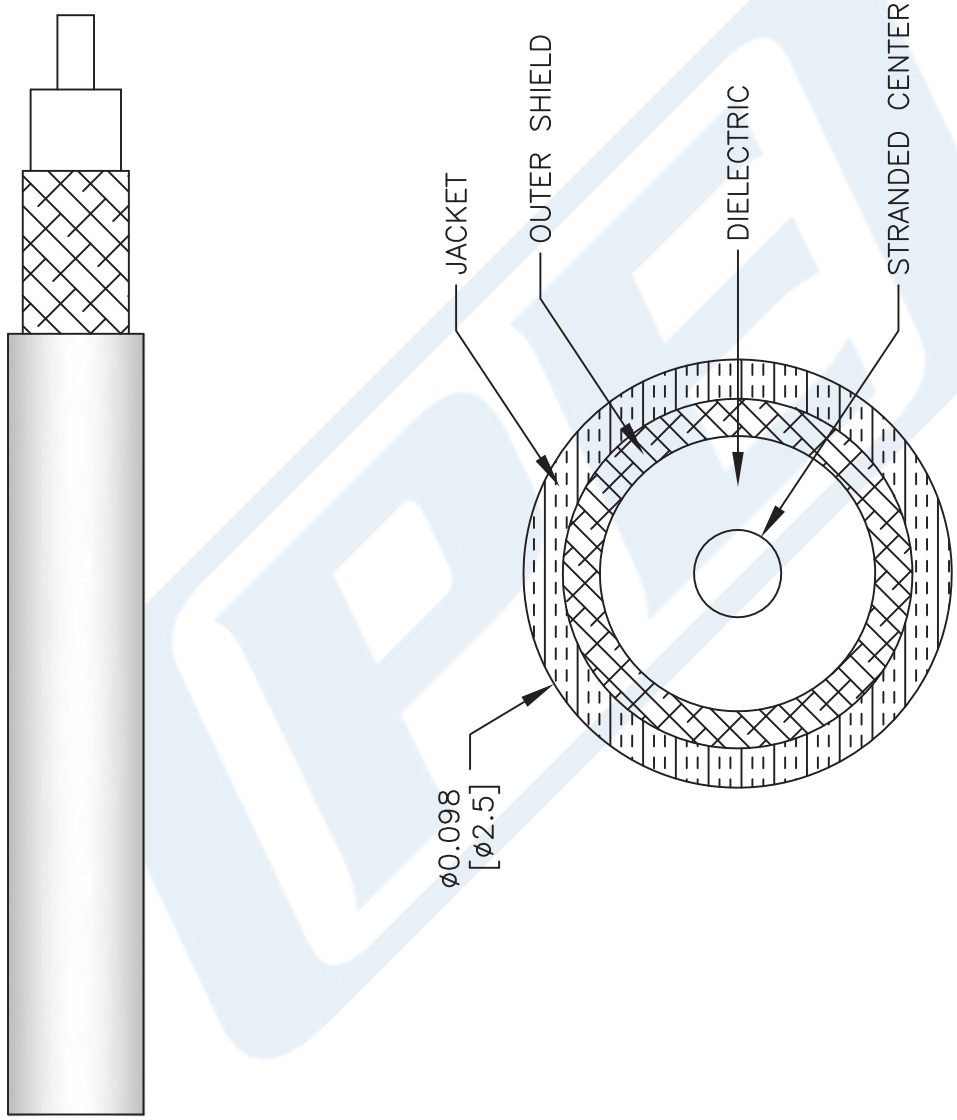
RG316/U CAD Drawing

Flexible RG316 Coax Cable Single Shielded with Tan FEP Jacket



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].

CAD FILE	111716	SCALE N/A	SIZE A	41742

DWG TITLE **RG316/U**

FSCM NO. 53919

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