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

.312 HEX.

$\varnothing.067^{+.002}_{-.000}$

$\varnothing.128\pm.003$
(BEFORE CRIMP)

(.691)
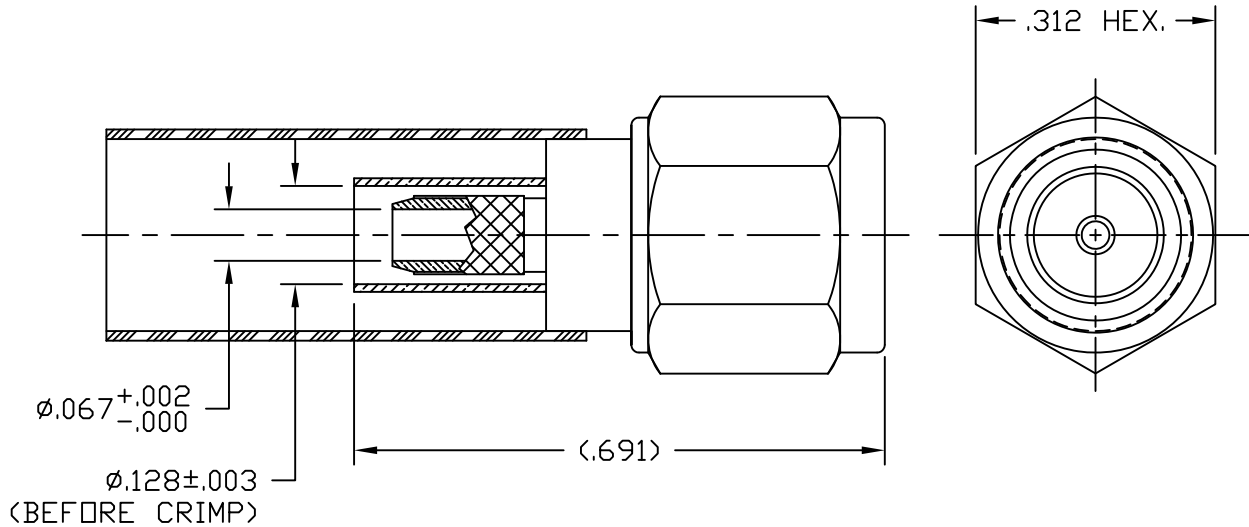
NOTES:

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.
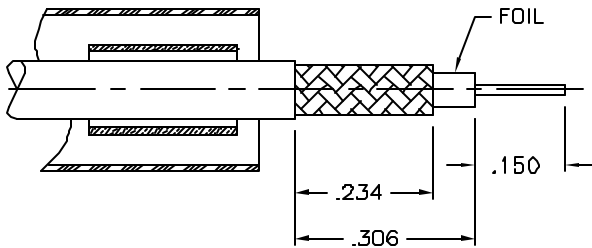
5. CRIMP THE FERRULE TO .128" HEX.

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.	TC-100-SM
USED ON: A		DATE 8/20/03	SMA MALE FOR LMR100 CABLE
		APPD. J. C. L.	
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

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

SHRINK SLEEVE   CRIMP SLEEVE   CONTACT   BODY SUB-ASSEMBLY

FOIL

.234
.306
.150
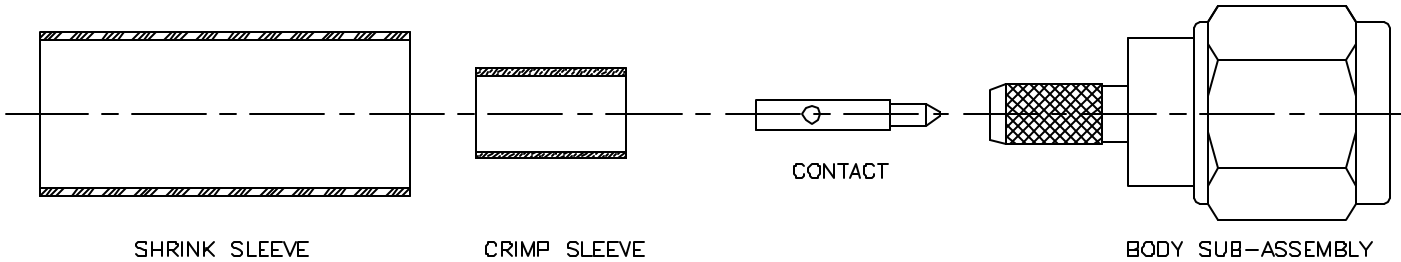
1) A. Trim cable to dimensions shown. Slide shrink sleeve & crimp sleeve back onto cable.

B. Remove any residual plastic from the center conductor and deburr center conductor using a fine file.
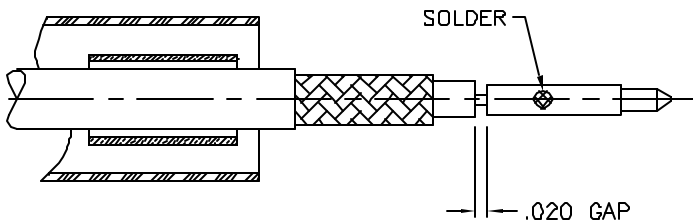
SOLDER

.020 GAP

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.
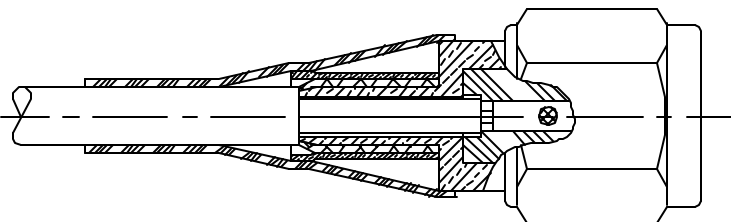
3) A. Insert cable into connnector until fully seated, with all braid wires on the outside of connector body and aluminum tape inside connector body.

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

MCX Jack Connector Crimp/Solder Attachment for RG174, RG316, RG188, PE-B100, PE-C100, 0.100 inch, LMR-100

RF Connectors Technical Data Sheet   PE4562

Configuration

- MCX Jack Connector
- MIL-C-39012
- 50 Ohms
- Straight Body Geometry

- RG174, RG316, RG188, PE-B100, PE-C100, 0.100 inch, LMR-100 Interface Type
- Crimp/Solder Attachment

Features

- Gold Plated Contact
- Contact plating according to MIL-G-45204

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4562 MCX jack connector with crimp/solder attachment for RG174, RG316, RG188, PE-B100, PE-C100, 0.100 inch and LMR-100 is part of our full line of RF components available for same-day shipping.

Our MCX jack connector PE4562 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.

Mechanical Specifications

Size

Length	0.66 in [16.76 mm]
Width/Dia.	0.177 in [4.50 mm]
Weight	0.004 lbs [1.81 g]

Material Specifications

Description	Material	Plating
Contact		Gold MIL-G-45204
Insulation	PTFE	
Body	Brass	Nickel QQ-N-290

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: MCX Jack Connector Crimp/Solder Attachment for RG174, RG316, RG188, PE-B100, PE-C100, 0.100 inch, LMR-100 PE4562

Environmental Specifications
   Temperature
   Operating Range   -65 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data
   Notes:

MCX Jack Connector Crimp/Solder Attachment for RG174, RG316, RG188, PE-B100, PE-C100, 0.100 inch, LMR-100 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: MCX Jack Connector Crimp/Solder Attachment for RG174, RG316, RG188, PE-B100, PE-C100, 0.100 inch, LMR-100 PE4562

URL: https://www.pasternack.com/mcx-jack-standard-rg174-rg316-rg188-connector-pe4562-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.

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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PE4562 CAD Drawing

MCX Jack Connector Crimp/Solder Attachment for RG174, RG316, RG188, PE-B100, PE-C100, 0.100 inch, LMR-100

0.660 [16.8]

0.177 ø [4.5]

0.354 [9.0]

0.147 [3.7]

0.094 [2.4]
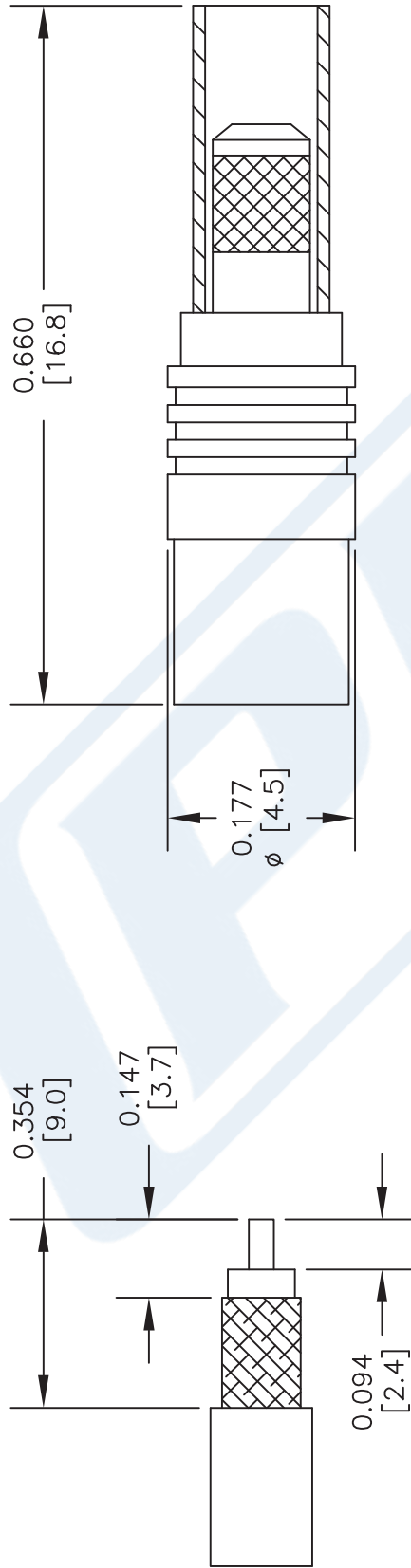
STRIPPING DIMENSIONS

CRIMP SIZE REQUIRED

CONTACT: SOLDER
FERRULE: .128" HEX CRIMP TOOL

SIZE A	SCALE N/A	2233
	CAD FILE 082815	

DWG TITLE **PE4562**

FSCM NO. 53919

PE PASTERNACK®
THE ENGINEER'S RF SOURCE

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Website: www.pasternack.com | **E-Mail:** sales@pasternack.com

PE4562 REV 1.3

PASTERNACK®
THE ENGINEER'S RF SOURCE

Flexible RG174 Coax Cable Single
Shielded with Black PVC Jacket

RF Cables Technical Data Sheet

TIMES MICROWAVE SYSTEMS   **RG174A/U**

Configuration

- Flexible Cable
- 1 Shield(s)

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
Impedance		50		Ohms
Velocity of Propagation		66		%
Nominal Capacitance		31.08 [101.97]		pF/ft [pF/m]

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	100	400	1,000			MHz
Attenuation, Typ	8.4	27.56	32			dB/100ft
	27.56	90.42	104.99			dB/100m

Mechanical Specifications

Diameter   0.11 in [2.79 mm]
Weight   0.009 lbs/ft [0.01 Kg/m]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, 7 Strands	0.019 in [0.48 mm]
Conductor Type	Stranded	
Dielectric	PE	0.06 in [1.52 mm]
First Shield	Tinned Copper Braid	0.078 in [1.98 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Flexible RG174 Coax Cable Single Shielded with Black PVC Jacket RG174A/U

Flexible RG174 Coax Cable Single
Shielded with Black PVC Jacket

RF Cables Technical Data Sheet   RG174A/U

Jacket	PVC, Black	0.11 in [2.79 mm]

Environmental Specifications
Temperature
Operating Range   -40 to +80 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data
Notes:

Flexible RG174 Coax Cable Single Shielded with Black PVC 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.
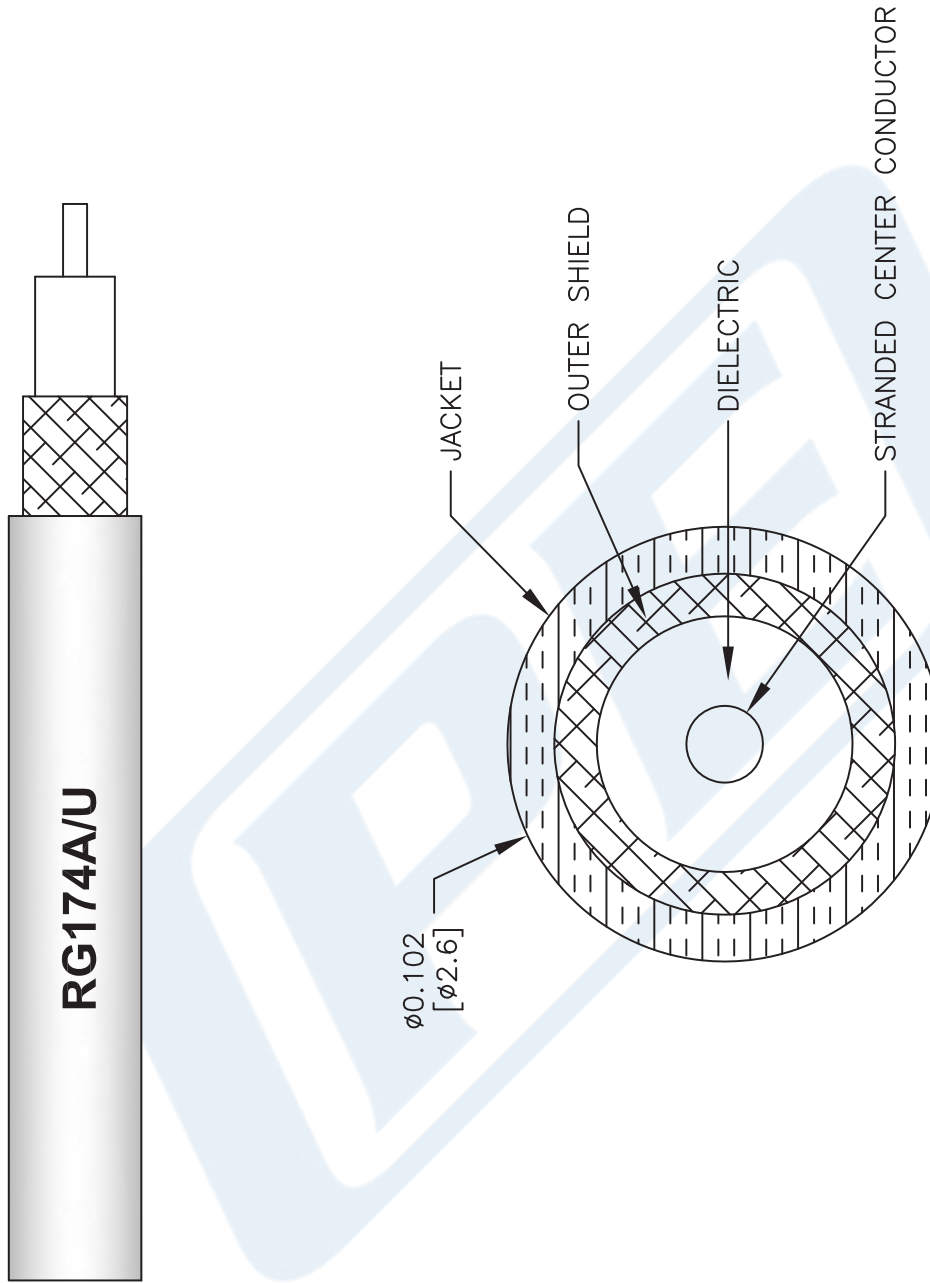
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Flexible RG174 Coax Cable Single Shielded with Black PVC Jacket RG174A/U

URL: https://www.pasternack.com/flexible-0.100-rg174-50-ohm-coax-cable-pvc-jacket-rg174a-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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RG174A/U CAD Drawing

Flexible RG174 Coax Cable Single Shielded with Black PVC Jacket

RG174A/U

JACKET

OUTER SHIELD

DIELECTRIC

STRANDED CENTER CONDUCTOR

Ø0.102
[Ø2.6]

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