



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

RF Connectors Technical Data Sheet

PE45137

Configuration

- SMA Female Connector
- MIL-STD-348A
- 50 Ohms

- Straight Body Geometry
- Connector Interface Types: RG316, RG174, LMR-100, RG188, PE-B100, PE-C100, 0.100 inch

Features

- Max. Operating Frequency 6 GHz
- Good VSWR of 1.3:1
- Gold Plated Beryllium Copper Contact
- 50 μ in. minimum contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE45137 SMA female connector with crimp/solder attachment for RG316, RG174, LMR-100, RG188, PE-B100, PE-C100 and 0.100 inch is part of our full line of RF components available for same-day shipping. Our SMA female connector operates up to a maximum frequency of 6 GHz and offers good VSWR of 1.3:1.

Our SMA female connector PE45137 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		6	GHz
VSWR			1.3:1	
Operating Voltage (AC)			335	Vrms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 3					GHz
VSWR, Max	1.21:1					

Mechanical Specifications

Size

Length
Width/Dia.

0.591 in [15.01 mm]
0.25 in [6.35 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female Connector Crimp/Solder Attachment for RG316, RG174, LMR-100, RG188, PE-B100, PE-C100, 0.100 inch PE45137](#)



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

RF Connectors Technical Data Sheet

PE45137

Weight 0.01 lbs [4.54 g]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold 50 μ in. minimum
Insulation	Teflon	
Outer Conductor	Brass	Gold 3 μ in. minimum
Body	Brass	Gold 3 μ in. minimum

Environmental Specifications

Temperature

Operating Range

-65 to +165 deg C

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

Plotted and Other Data

Notes:

SMA Female Connector Crimp/Solder Attachment for RG316, RG174, LMR-100, RG188, 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 99.4% availability and are part of the broadest selection in the industry.

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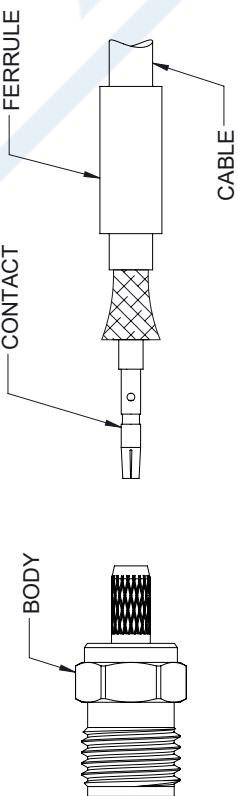
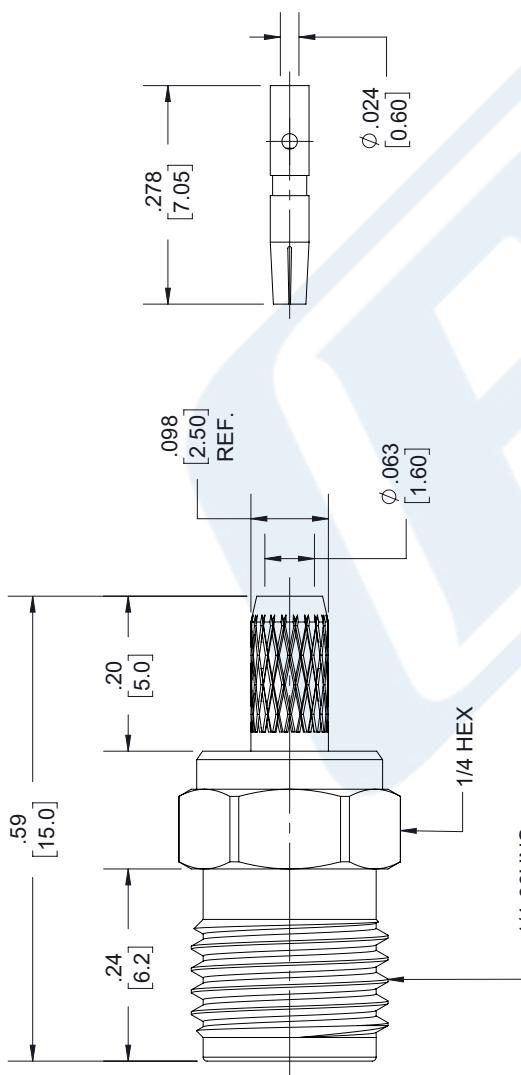
URL: <https://www.pasternack.com/sma-female-rg316-rg174-lmr-100-connector-pe45137-p.aspx>

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.

PE45137 CAD Drawing

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

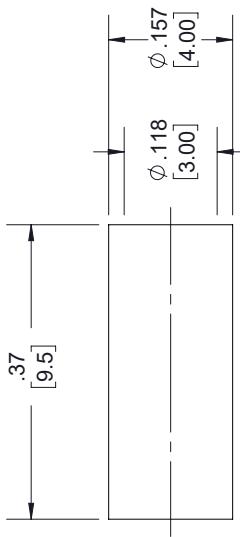
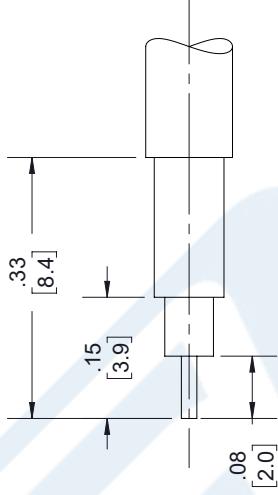
REVISIONS				
REV.	DESCRIPTION	DATE	APPROVED	
A	PCR PE45137 20200921	10/23/20	SRAUTUS	



ASSEMBLY PROCEDURES

1. STRIP CABLE TO THE DIMENSIONS SHOWN, DO NOT NICK CENTER CONDUCTOR OR BRAID.
2. SLIDE FERRULE ONTO CABLE.
3. PUSH CENTER CONDUCTOR FULLY INTO CONTACT AND SOLDER, REMOVE ANY EXCESS SOLDER.
4. FLARE BRAID AND INSERT CONTACT INTO THE BODY UNTIL IT SEATS.
5. SLIDE FERRULE OVER BRAID AND CRIMP WITH 1.38" [3.5] HEX CRIMP TOOL.

STRIPPING DIMENSIONS



 PASTERNACK an INFINITE brand	THIRD-ANGLE PROJECTION	
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Pasternack Enterprises, Inc. P.O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920 1.866.727.8376 Fax: 1.949.261.7451 Website: www.pasternack.com E-mail: sales@pasternack.com	SCALe	REV N/A
SIZE	CAGE CODE	DRAWN BY
A	53919	SLI
ITEM NO.	PE45137	

UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS
TOLERANCES:

X = \pm 2 [5.08] FRACTIONS
XX = \pm .02 [5.51] \pm 1/32
XXX = \pm .005 [1.31] ANGLES \pm 1°
CABLE LENGTH (L) TOLERANCES:
L \leq 12 [305] = +1 [25] / -0
12 [305] < L \leq 60 [1524] = +2 [51] / -0
60 [1524] < L \leq 120 [3048] = +4 [102] / -0
120 [3048] < L \leq 300 [7620] = +6 [152] / -0
300 [7620] < L = +5% / -0

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.
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RF Connectors Technical Data Sheet

PE45137

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- MIL-STD-348A
- 50 Ohms

- Straight Body Geometry
- Connector Interface Types: RG316, RG174, LMR-100, RG188, PE-B100, PE-C100, 0.100 inch

Features

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- Gold Plated Beryllium Copper Contact
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- General Purpose Test
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Our SMA female connector PE45137 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		6	GHz
VSWR			1.3:1	
Operating Voltage (AC)			335	Vrms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 3					GHz
VSWR, Max	1.21:1					

Mechanical Specifications

Size

Length
Width/Dia.

0.591 in [15.01 mm]
0.25 in [6.35 mm]

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

RF Connectors Technical Data Sheet

PE45137

Weight 0.01 lbs [4.54 g]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold 50 μ in. minimum
Insulation	Teflon	
Outer Conductor	Brass	Gold 3 μ in. minimum
Body	Brass	Gold 3 μ in. minimum

Environmental Specifications

Temperature

Operating Range

-65 to +165 deg C

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

Plotted and Other Data

Notes:

SMA Female Connector Crimp/Solder Attachment for RG316, RG174, LMR-100, RG188, 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 99.4% availability and are part of the broadest selection in the industry.

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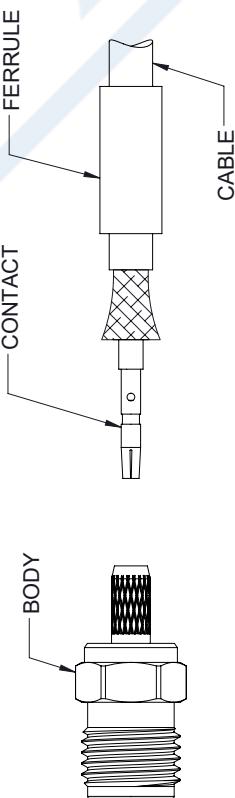
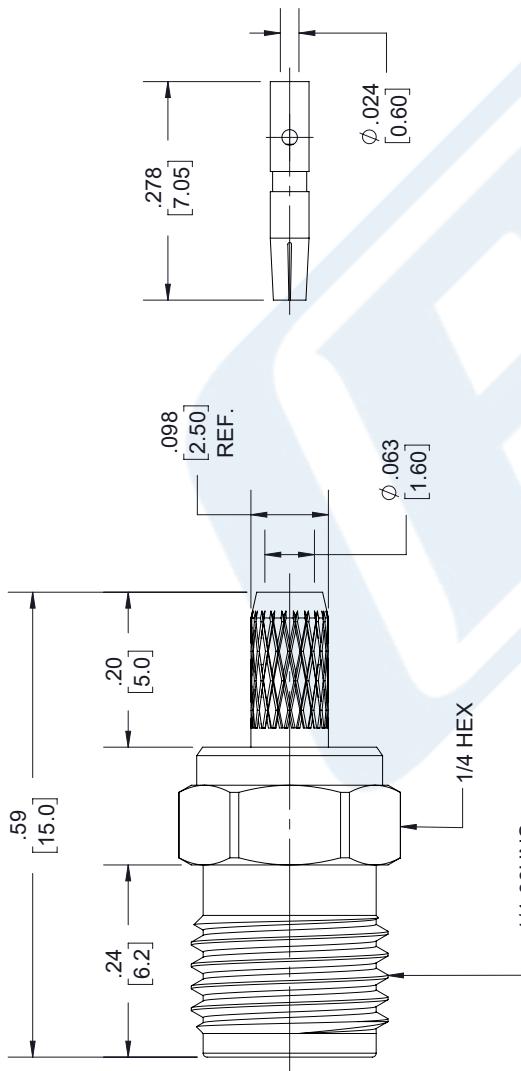
URL: <https://www.pasternack.com/sma-female-rg316-rg174-lmr-100-connector-pe45137-p.aspx>

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PE45137 CAD Drawing

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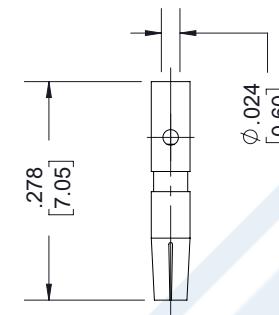
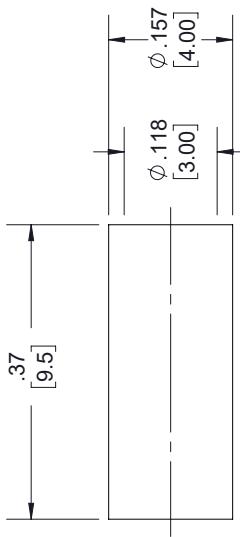
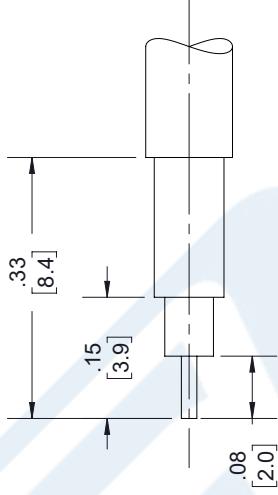
REVISIONS				
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ASSEMBLY PROCEDURES

1. STRIP CABLE TO THE DIMENSIONS SHOWN, DO NOT NICK CENTER CONDUCTOR OR BRAID.
2. SLIDE FERRULE ONTO CABLE.
3. PUSH CENTER CONDUCTOR FULLY INTO CONTACT AND SOLDER, REMOVE ANY EXCESS SOLDER.
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STRIPPING DIMENSIONS



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ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	ITEM NO.	PE45137
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REV		A

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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			32 [104.99]	[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, Silver7	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	0.081 in 2.06 mm
Jacket	FEP, Tan	0.102 in [2.59 mm]

Environmental Specifications

Temperature Operating Range	-55 to +200 deg C
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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

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.

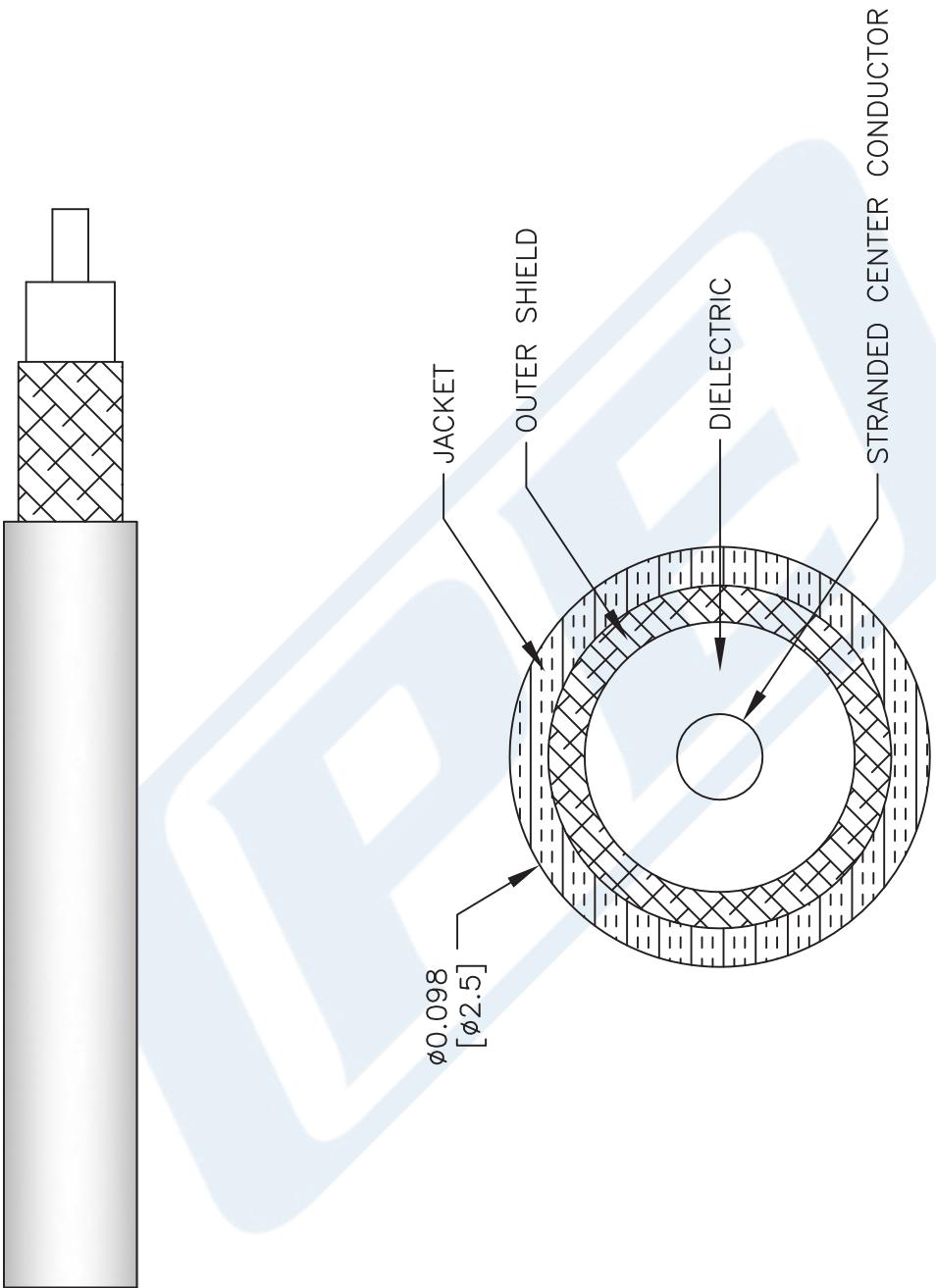
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URL: <https://www.pasternack.com/flexible-rg316u-fep-jacket-silver-plated-copper-braid-outer-conductor-single-shielded-rg316-u-p.aspx>

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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].

DWG TITLE
RG316/U

PASTERNACK
THE ENGINEER'S RF SOURCE
Pasternack Enterprises, Inc.
P.O. Box 16759 | Irvine | CA | 92623

Phone: (949) 261-1920 | Fax: (949) 261-7451
Website: www.pasternack.com | E-Mail: sales@pasternack.com

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