



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

RF Connectors Technical Data Sheet

PE44378

Configuration

- SSMA Male Connector
- MIL-STD-348
- 50 Ohms
- Right Angle Body Geometry
- RG174, RG316, RG188, PE-B100, PE-C100, 0.100 inch, LMR-100 Interface Type
- Crimp/Solder Attachment
- 1/4 inch Hex

Features

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

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE44378 SSMA male right angle 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. Its right angle body geometry allows for easier connections in tight spaces.

Our SSMA male right angle connector PE44378 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	0.57 in [14.48 mm]
Width/Dia.	0.25 in [6.35 mm]
Height	0.675 in [17.15 mm]
Weight	0.008 lbs [3.63 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: [SSMA Male Right Angle Connector Crimp/Solder Attachment for RG174, RG316, RG188, PE-B100, PE-C100, 0.100 inch, LMR-100 PE44378](#)



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Material Specifications

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

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

Plotted and Other Data

Notes:

SSMA Male Right Angle 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.

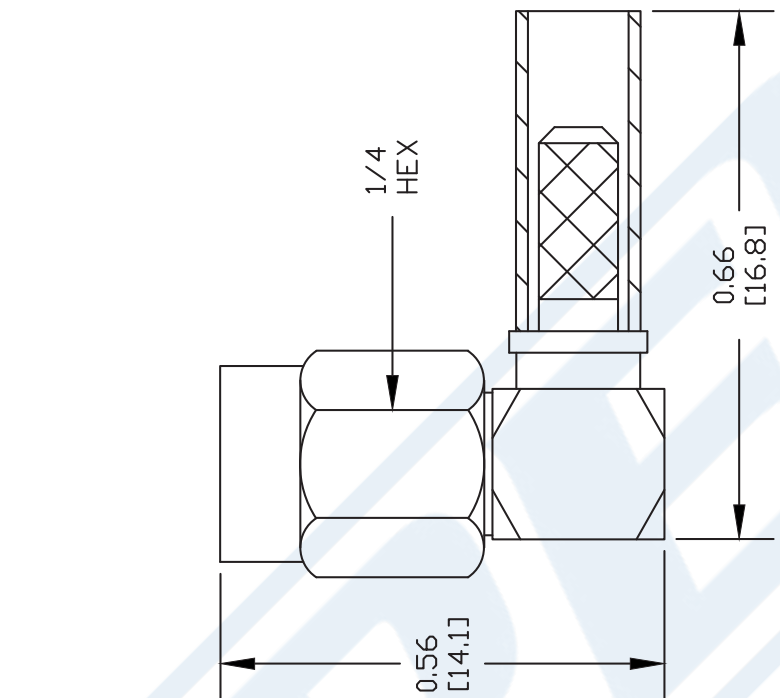
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URL: <https://www.pasternack.com/ssma-male-standard-rg174-rg316-rg188-connector-pe44378-p.aspx>

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.

PE44378 CAD Drawing

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



STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN & SLIDE FERRULE OVER CABLE.
2. INSTALL CABLE INTO BODY OF CONNECTOR AND SOLDER CENTER CONDUCTOR IN PLACE.
3. CRIMP FERRULE & PRESS

CRIMP SIZE REQUIRED

FERRULE: .128" HEX CRIMP TOOL

PE PASTERNAK®
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DWG TITLE
PE44378

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.

FSCM NO. 53919

CAD FILE 080103

SCALE N/A

SIZE A

147



SMP Female Right Angle Push-On Connector Crimp/ Solder Attachment for RG316, RG174, LMR-100

RF Connectors Technical Data Sheet

PE45128

Configuration

- Push-On SMP Female Connector
- MIL-STD-348A
- 50 Ohms
- Right Angle Body Geometry
- RG316, RG174, LMR-100 Interface Type
- Crimp/Solder Attachment

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.3:1	
Operating Voltage (AC)			350	Vrms

Mechanical Specifications

Size

Length	0.295 in [7.49 mm]
Width/Dia.	0.157 in [3.99 mm]
Height	0.311 in [7.9 mm]
Weight	0.00736 lbs [3.34 g]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold 30μ in. minimum
Insulation	Teflon	
Outer Conductor	Beryllium Copper	Gold 3μ in. minimum
Body	Brass	Gold 3μ in. minimum

Environmental Specifications

Temperature

Operating Range	-65 to 165 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: [SMP Female Right Angle Push-On Connector Crimp/Solder Attachment for RG316, RG174, LMR-100 PE45128](#)



SMP Female Right Angle Push-On Connector Crimp/ Solder Attachment for RG316, RG174, LMR-100

RF Connectors Technical Data Sheet

PE45128

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

Plotted and Other Data

Notes:

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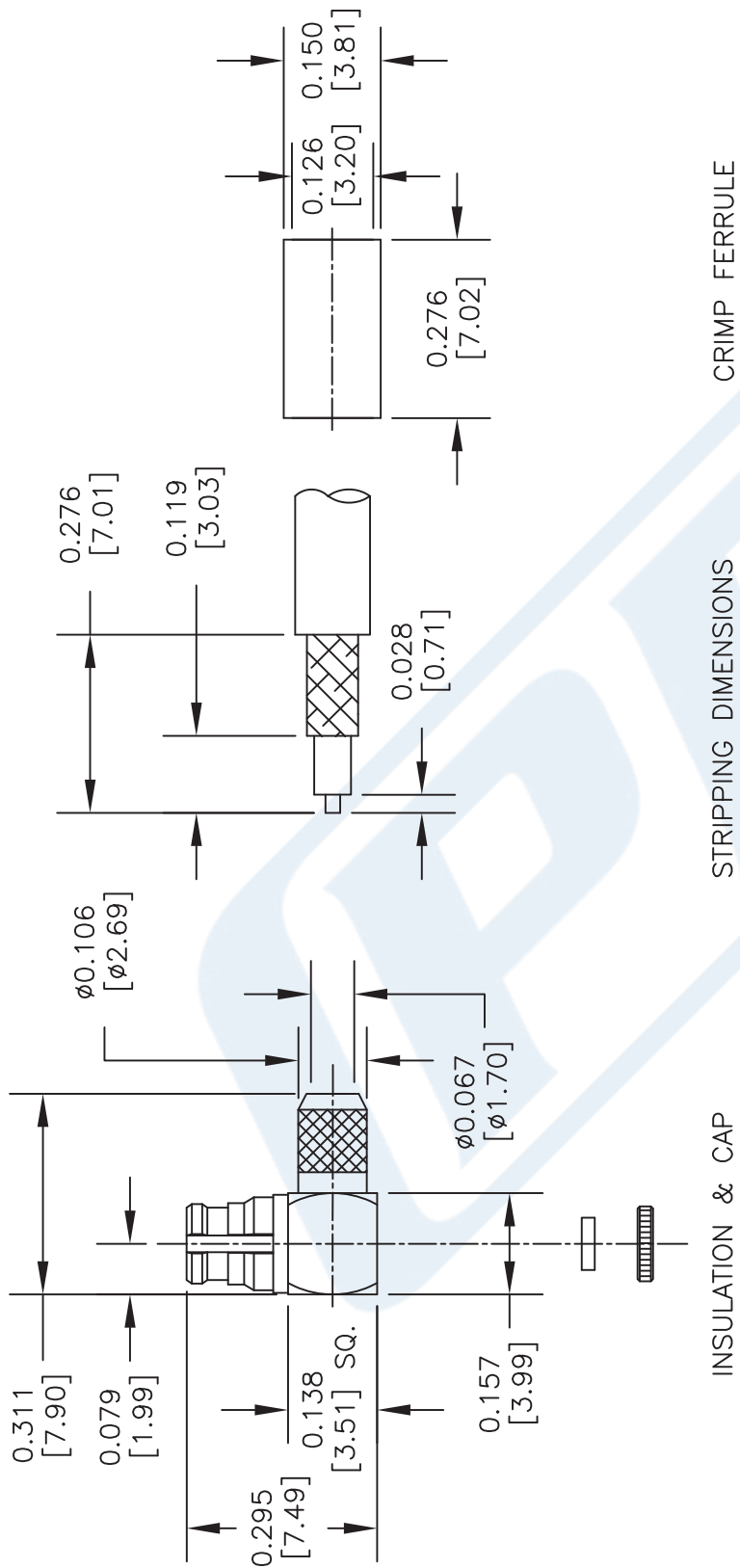
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URL: <https://www.pasternack.com/smp-female-push-on-rg316-rg174-lmr-100-connector-pe45128-p.aspx>

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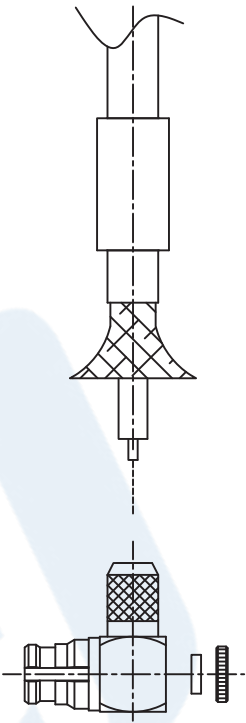
PE45128 CAD Drawing

SMP Female Right Angle Push-On Connector Crimp/
Solder Attachment for RG316, RG174, LMR-100



ASSEMBLY PROCEDURES

1. STRIP THE CABLE TO THE DIMENSIONS SHOWN, DO NOT NICK CENTER CONDUCTOR OR BRAID.
2. SLIDE FERRULE ONTO THE CABLE.
3. FLARE THE BRAID, INSERT THE CONTACT AND SOLDER TO INTERNAL CONTACT.
4. SLIDE FERRULE OVER BRAID AND CRIMP WITH .130" [3.3] HEX. CRIMP TOOL.
5. INSERT THE INSULATION AND THE CAP.



DWG TITLE

PE45128

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FSCM NO. 53919

CAD FILE 021015

SCALE N/A

SIZE A

200

Low Loss Flexible RG174 Type Coax Cable Double Shielded with Black LSZH Jacket

RF Cables Technical Data Sheet

PE-C100-LSZH

Configuration

Low Loss Flexible Cable
2 Number of Shields

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5	GHz
Cutoff Frequency		41		GHz
Impedance		50		Ohms
Velocity of Propagation		66		%
Shielding Effectiveness	90			dB
Operating Voltage (AC)			500	Vrms
Jacket Spark			2,000	Vrms
Nominal Capacitance		30.8 [101.05]		pF/ft [pF/m]
Nominal Inductance		0.077 [0.25]		uH/ft [uH/m]

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	30	50	150	220	450	MHz
Attenuation, Typ	3.9	5.1	8.9	10.9	15.8	dB/100ft
	12.8	16.73	29.2	35.76	51.84	dB/100m
Input Power (CW), Max	230	180	100	80	60	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	0.7	1.5	1.8	2.5	5	GHz
Attenuation, Typ	20.1	30.5	33.5	40.5	60	dB/100ft
	65.94	100.07	109.91	132.87	196.85	dB/100m
Input Power (CW), Max	40	40	40	40	10	Watts

Mechanical Specifications

Diameter 0.109 in [2.77 mm]
Weight 0.014 lbs/ft [0.02 Kg/m]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low Loss Flexible RG174 Type Coax Cable Double Shielded with Black LSZH Jacket PE-C100-LSZH](#)

Low Loss Flexible RG174 Type Coax Cable
Double Shielded with Black LSZH Jacket

RF Cables Technical Data Sheet

PE-C100-LSZH

Min. Bend Radius (Installation)	0.25 in [6.35 mm]
Min. Bend Radius (Repeated)	1 in [25.4 mm]
Bending Moment	0.1 lbs/ft [0.15 Kg/m]
Tensile Strength	15 lbs [6.8 Kg]
Flat Plate Crush	10 lbs/in [0.18 Kg/mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, 1 Strands	0.018in [0.46 mm]
Dielectric	PE	0.059 in [1.5 mm]
First Shield	Aluminum Tape	
Second Shield	Tinned Copper Braid	
Jacket	LSZH, Black	0.109 in [2.77 mm]

Environmental Specifications

Temperature

Operating Range	-40 to 85 deg C
Storage Range	-40 to 85 deg C

Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant	
REACH Compliant	12/17/2014

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Low Loss Flexible RG174 Type Coax Cable Double Shielded with Black LSZH Jacket

RF Cables Technical Data Sheet

PE-C100-LSZH

Plotted and Other Data

Notes:

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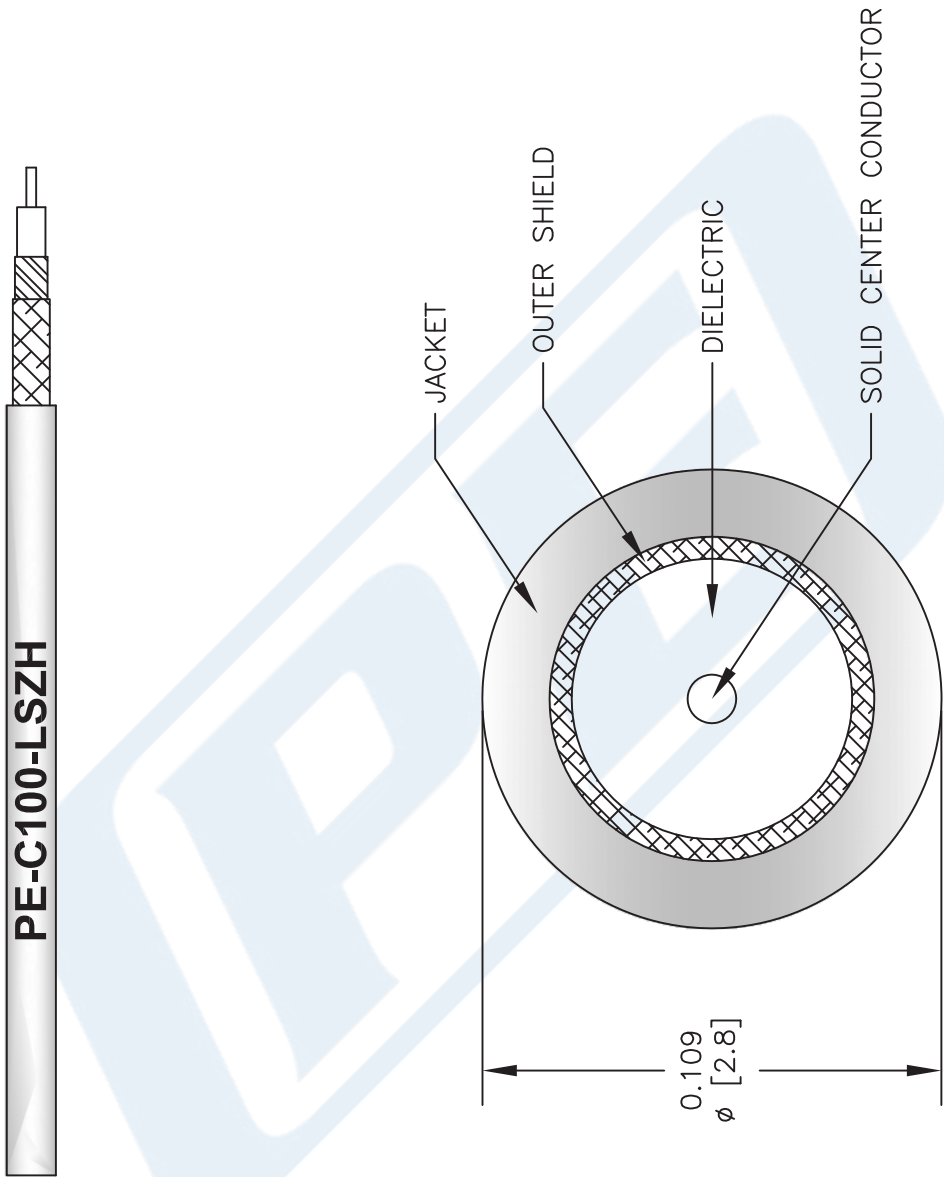
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URL: <http://www.pasternack.com/50-ohm-low-loss-lszh-jacket-aluminum-tape-over-tinned-copper-braid-outer-conductor-double-shielded-pe-c100-lszh-p.aspx>

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PE-C100-LSZH CAD Drawing

Low Loss Flexible RG174 Type Coax Cable Double Shielded with Black LSZH Jacket



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DWG TITLE
PE-C100-LSZH

FSCM NO. 53919

CAD FILE 031313

SCALE N/A

SIZE A

2233

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