

## 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 Width/Dia. Height Weight

0.295 in [7.49 mm] 0.157 in [3.99 mm] 0.311 in [7.9 mm]

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

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

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



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



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Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:

SMP Female Right Angle Push-On Connector Crimp/Solder Attachment for RG316, RG174, 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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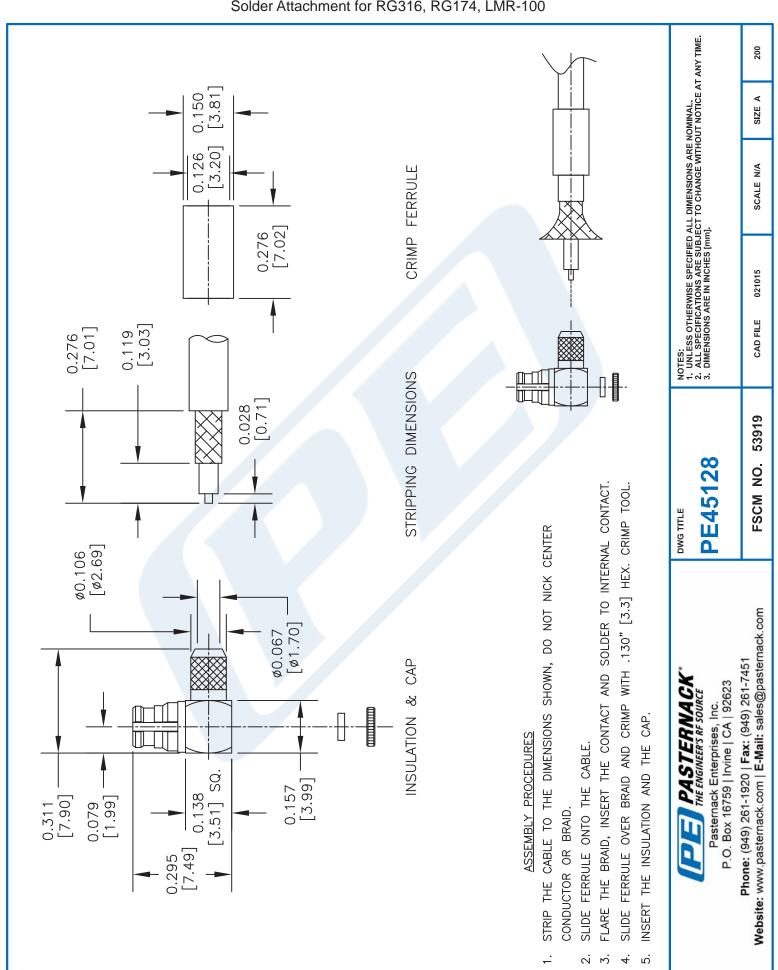
URL: https://www.pasternack.com/smp-female-push-on-rg316-rg174-lmr-100-connector-pe45128-p.aspx

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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# PE45128 CAD Drawing

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









#### RF Connectors Technical Data Sheet

PE44361

#### Configuration

- 10-32 Female 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 PE44361 10-32 female 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 10-32 female connector PE44361 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
 1.095 in [27.81 mm]

 Width/Dia.
 0.25 in [6.35 mm]

 Weight
 0.011 lbs [4.99 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: 10-32 Female Connector Crimp/Solder Attachment for RG174, RG316, RG188, PE-B100, PE-C100, 0.100 inch, LMR-100 PE44361

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# 10-32 Female Connector Crimp/Solder Attachment for RG174, RG316, RG188, PE-B100, PE-C100, 0.100 inch, LMR-100



#### RF Connectors Technical Data Sheet

PE44361

# Environmental Specifications Temperature

**Operating Range** 

-65 to +165 deg C

Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:

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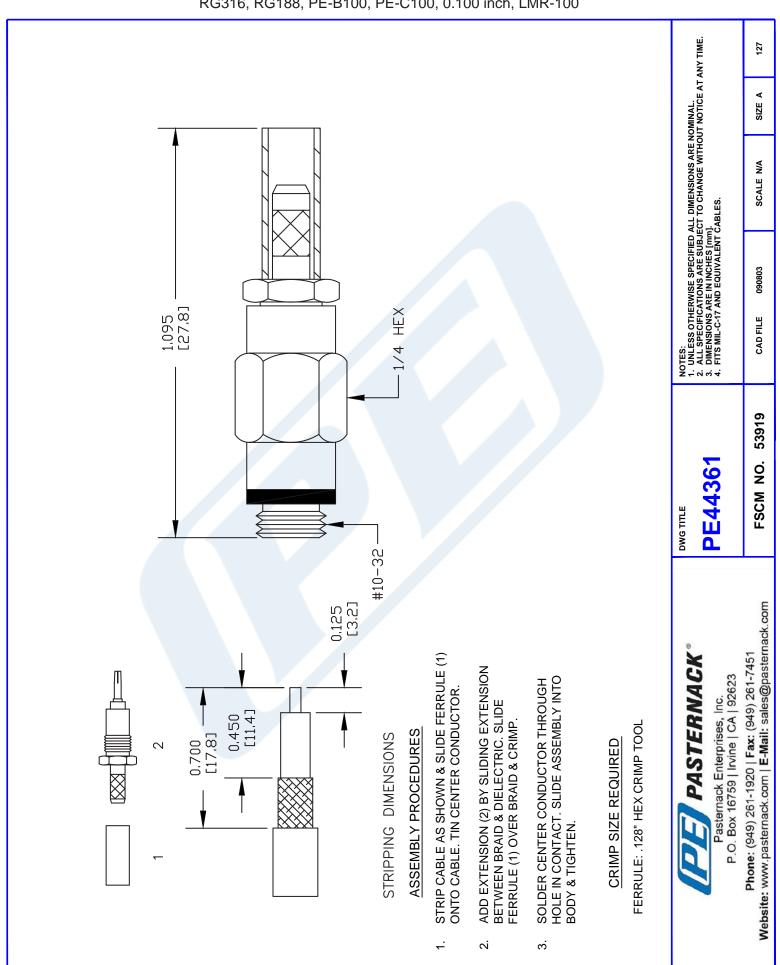
URL: https://www.pasternack.com/10-32-female-standard-rg174-rg316-rg188-connector-pe44361-p.aspx

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# PE44361 CAD Drawing

10-32 Female Connector Crimp/Solder Attachment for RG174, RG316, RG188, PE-B100, PE-C100, 0.100 inch, LMR-100





# LMR®-100A Flexible Low Loss Communications Coax Ideal for...

- Drop-in Replacement for RG-316/RG-174 (uses standard connectors)
- Jumper Assemblies in Wireless Communications Systems
- Short Antenna Feeder runs
- Any application (e.g. WLL, GPS, LMR, WLAN, WISP, WiMax, SCADA, Mobile Antennas) requiring an easily routed, low loss RF cable
- LMR\*- PVC is designed for low loss general-purpose indoor/outdoor applications and is somewhat more flexible than the standard polyethylene jacketed LMR.
- LMR°-PVC-W is a white-jacketed version of LMR-PVC for marine and other indoor/outdoor applications where color compatibility is desired.
- Flexibility and bendability are hallmarks of the LMR-100A cable design. The flexible outer conductor enables the tightest bend radius available for any cable of similar size and performance.
- Low Loss is another hallmark feature of LMR-100A. Size for size LMR has the lowest loss of any flexible cable and comparable loss to semirigid hard-line cables.
- **RF Shielding** is 50 dB greater than typical single shielded coax (40 dB). The multi-ply bonded foil outer conductor is rated conservatively at > 90 dB (i.e. >180 dB between two adjacent cables).
- **Weatherability**: LMR-100A cables designed for outdoor exposure incorporate the best materials for UV resistance and have life expectancy in excess of 20 years.
- Connectors: A wide variety of connectors are available for LMR-100A cable, including all common interface types, reverse polarity, and a choice of solder or non-solder center pins. Most LMR connectors employ crimp outer attachment using standard hex crimp sizes.
- Cable Assemblies: All LMR-100A cable types are available as pre-terminated cable assemblies. Refer to the section on FlexTech for further details.

Part Description						
Part Number	Application	Jacket	Color	Code		
LMR-100A-FR	Indoor/Outdoor Riser CMR	FRPE	Black	54037		
LMR-100A-PVC	Indoor/Outdoor	PVC	Black	54119		
LMR-100A-PVC-	-W Indoor/Outdoor	PVC	White	54200		

PVC = Poly Vinyl Chloride; MTO = Made to Order

Construction Specifications						
Description	Material	In.	(mm)			
Inner Conductor	Solid BCCS	0.018	(0.46)			
Dielectric	Solid PE	0.060	(1.52)			
Outer Conductor	Aluminum Tape	0.065	(1.65)			
Overall Braid	Tinned Copper	0.083	(2.11)			
Jacket	(see table above)	0.110	(2.79)			

LIMP TODA TIME

Mechanical Specifications								
Performance Property	Units	US	(metric)					
Bend Radius: installation	in. (mm)	0.25	(6.4)					
Bend Radius: repeated	in. (mm)	1	(25.4)					
Bending Moment	ft-lb (N-m)	0.1	(0.014)					
Weight	lb/ft (kg/m)	0.0092	(.014)					
Tensile Strength	lb (kg)	15	(6.8)					
Flat Plate Crush	lb/in. (kg/mm)	10	(0.18)					

Environmental Specifications							
Performance Property	°F	°C					
Installation Temperature Range	-40/+185	-40/+85					
Storage Temperature Range	-94/+185	-70/+85					
Operating Temperature Range	-40/+185	-40/+85					

Electrical Specifications								
Performance Property	Units	US	(metric)					
Velocity of Propagation	%	66						
Dielectric Constant	NA	2.30						
Time Delay	nS/ft (nS/m)	1.54	(5.05)					
Impedance	ohms	50						
Capacitance	pF/ft (pF/m)	30.8	(101.1)					
Inductance	uH/ft (uH/m)	0.077	(0.25)					
Shielding Effectiveness	dB	>90						
DC Resistance								
Inner Conductor	ohms/1000ft (/km)	81.0	(266)					
Outer Conductor	ohms/1000ft (/km)	9.5	(31.2)					
Voltage Withstand	Volts DC	500						
Jacket Spark	Volts RMS	2000						
Peak Power	kW	0.6						



#### **Attenuation vs. Frequency** (typical)



Calculate Attenuation = (0.709140) • √ FMHz + (0.001740) • FMHz (interactive calculator available at http://www.timesmicrowave/telecom)

Attenuation: VSWR=1.0; Ambient = +25°C (77°F) Power: VSWR=1.0; Ambient = +40°C; Inner Conductor = 100°C (212°F);

Sea Level; dry air; atmospheric pressure; no solar loading

0.057

0.039

0.029

0.027

0.025

0.022

0.013



# **Connectors**

		Part	Stock			Coupling			Body	Le			idth		ight
Interface	Description	Number	Code	Freq.	(GHz)	Nut	Attach	Attach	/Pin	in	(mm)	in	(mm)	lb	(g)
SMA male	Straight Plug	TC-100-SM	3190-1551	<1.25:1	(<3)	Hex	Solder	Crimp	SS/G	1.0	(25.4)	0.32	(8.1)	0.015	(6.8)
TNC male	Straight Plug	TC-100-TM	3190-1552	<1.25:1	(<3)	Knurl	Solder	Crimp	S/G	1.4	(35.6)	0.59	(15.0)	0.045	(20.4)

<sup>\*</sup> Finish metals: N=Nickel, S=Silver, G=Gold, SS=Stainless Steel, A=Alballoy \*\*VSWR spec based on 3 foot cable with a connector pair



Avg. Power kW

0.230

0.180

0.100

0.083

CROWAVE

# **Install Tools**

Туре	Part Number	Stock Code	Description
Crimp Tool	CT-240/200/195/100	3190-667	Crimp tool for LMR-100, 195, 200 and 240 connectors
Cutting Tool	CCT-01	3190-1544	Cable end flush cut tool
Replacement Blac	de RB-01	3190-1609	Replacement blade for cutting tool

