

SMA Male Right Angle Connector Crimp/Solder Attachment for RG316, RG174, RG188

RF Connectors Technical Data Sheet



PE45144

Configuration

- SMA Male Connector
- 50 Ohms
- Right Angle Body Geometry

Features

• Max. Operating Frequency 12.4 GHz

• Connector Interface Types: RG316, RG174, RG188 • 5/16 in Hex

• Gold Plated Brass Contact

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE45144 SMA male right angle connector with crimp/solder attachment for RG316, RG174 and RG188 is part of our full line of RF components available for same-day shipping. Our SMA male connector operates up to a maximum frequency of 12.4 GHz. Its right angle body geometry allows for easier connections in tight spaces.

Our SMA male right angle connector PE45144 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		12.4	GHz

Mechanical Specifications

Size Length	0.512 in [13 mm]
Width/Dia.	0.689 in [17.50 mm]
Weight	0.015 lbs [6.8 g]
Mating Torque	5 in-lbs [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: SMA Male Right Angle Connector Crimp/Solder Attachment for RG316, RG174, RG188 PE45144

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

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Material Specifications

Description	Material	Plating
Contact	Brass	Gold
Insulation	Teflon	
Body	Brass	Gold
Coupling Nut	Brass	Gold

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

SMA Male Right Angle Connector Crimp/Solder Attachment for RG316, RG174, RG188 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.

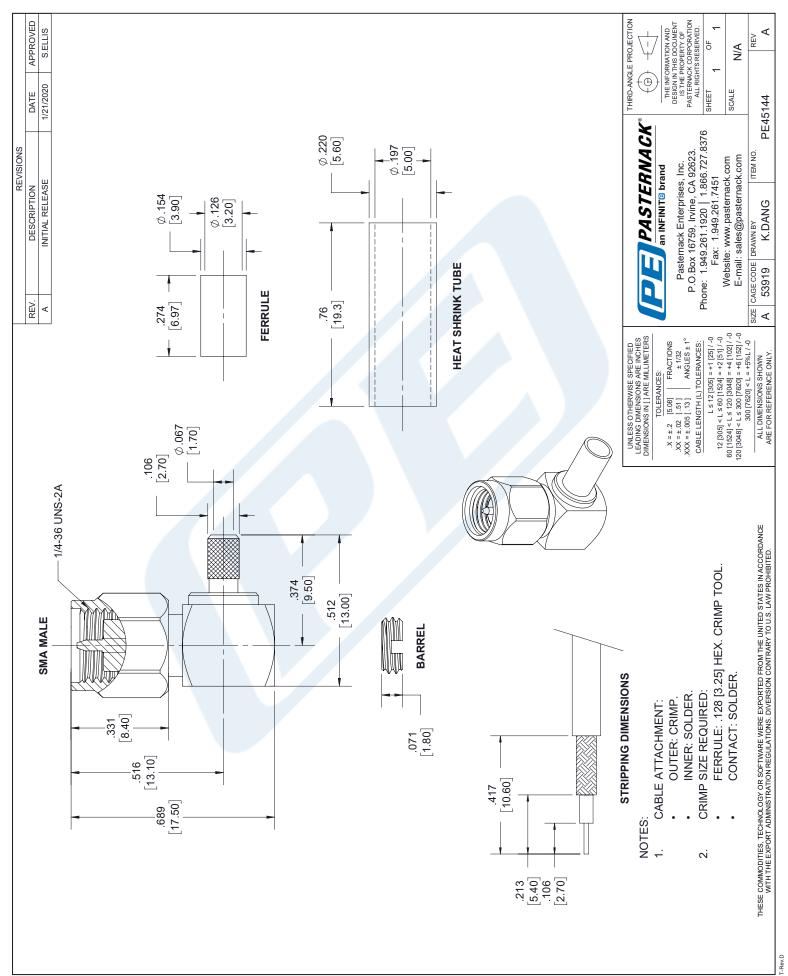
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Male Right Angle Connector Crimp/Solder Attachment for RG316, RG174, RG188 PE45144

URL: https://www.pasternack.com/sma-male-rg316-rg174-rg188-connector-pe45144-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.

PE45144 CAD Drawing

SMA Male Right Angle Connector Crimp/Solder Attachment for RG316, RG174, RG188





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



• RG174, RG316, RG188, 0.100 inch, PE-B100, PE-

C100, LMR-100 Interface Type

Crimp/Solder Attachment

RF Connectors Technical Data Sheet

PE4901

Configuration

- MMCX Jack Connector
- 50 Ohms
- Straight Body Geometry

Features

Gold Plated Beryllium Copper Contact

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4901 MMCX jack connector with crimp/solder attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100 and LMR-100 is part of our full line of RF components available for same-day shipping.

Our MMCX jack connector PE4901 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	0.71 in [18.03 mm]
Width/Dia.	0.157 in [3.99 mm]
Weight	0.003 lbs [1.36 g]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold
Insulation	PTFE	
Body	Brass	Gold

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: MMCX Jack Connector Crimp/Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100 PE4901

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

RF Connectors Technical Data Sheet



PE4901

Compliance Certifications (see product page for current document)

Plotted and Other Data Notes:

MMCX Jack Connector Crimp/Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, 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.

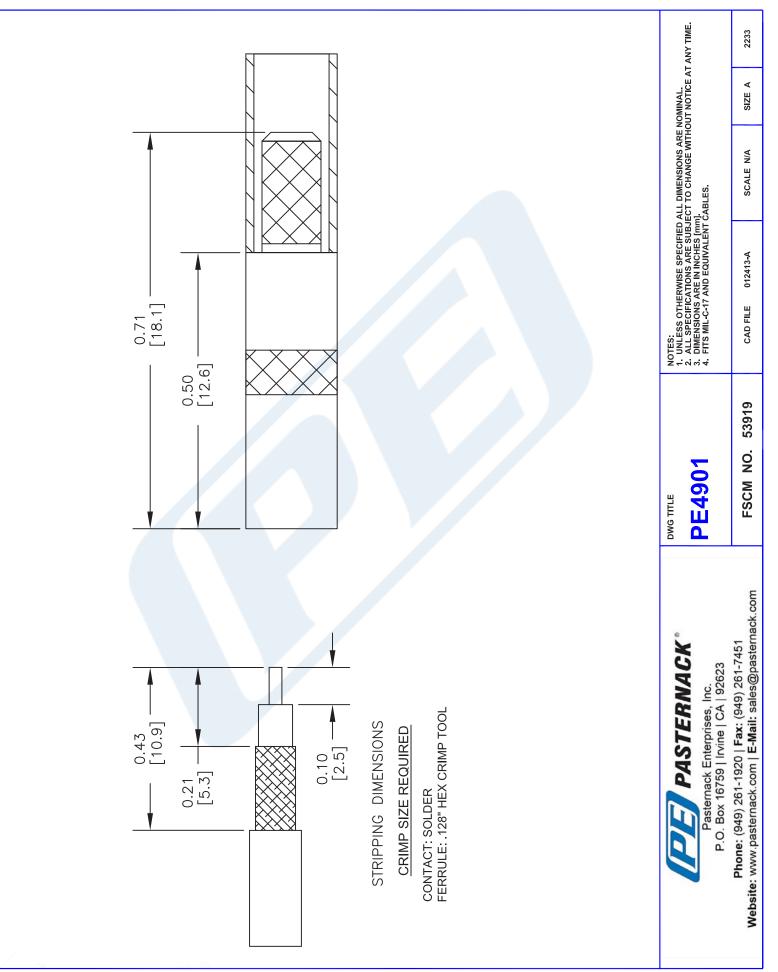
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: MMCX Jack Connector Crimp/Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100 PE4901

URL: https://www.pasternack.com/mmcx-jack-standard-rg174-rg316-rg188-connector-pe4901-p.aspx

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PE4901 CAD Drawing

MMCX Jack Connector Crimp/Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, 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 nonsolder 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	(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)					

TWR 1004 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)					

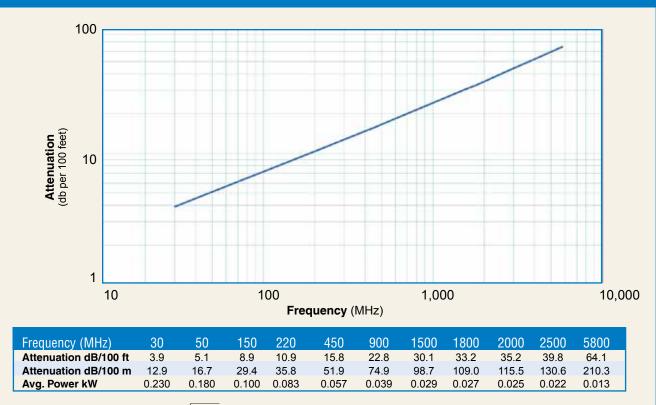
Environmental Specifications						
Performance Property	۴F	°C				
Installation Temperature Range	-40/+185	-40/+85				
Storage Temperature Range	-94/+185	-70/+85				
Operating Temperature Range	-40/+185	-40/+85				

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)

CROWAVE



Calculate Attenuation = (0.709140) • \sqrt{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



Connectors

							Inner	Outer	Finish*						
		Part	Stock	VSV	/R ** C	Coupling	Contact	Contact	Body	Lei	ngth	W	idth	Wei	ght
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)

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

C	T-240/200/195/100	Inst	all 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	CCT-01