

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



RF Connectors Technical Data Sheet

PE4009

Configuration

- SMA Male Connector
- MIL-STD-348A
- 50 Ohms
- Right Angle Body Geometry

Features

• Good VSWR of 1.4:1

- Connector Interface Types: RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch
- 5/16 inch Hex

- Max. Operating Frequency 6 GHz

- Gold Plated Brass Contact
- 50 µin minimum contact plating

Applications

General Purpose Test

Custom Cable Assemblies

Description

Pasternack's PE4009 SMA male right angle connector with crimp/solder attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100 and .100 inch 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 6 GHz and offers good VSWR of 1.4:1. Its right angle body geometry allows for easier connections in tight spaces.

Our SMA male right angle connector PE4009 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			1.4:1	
Operating Voltage (AC)			335	Vrms

Mechanical Specifications

Size

Length 0.61 in [15.49 mm] Width/Dia. 0.315 in [8.00 mm] 0.591 in [15.01 mm] Height Weight 0.016 lbs [7.26 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: SMA Male Right Angle Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch PE4009

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

RF Connectors
Technical Data Sheet

PE4009

Material Specifications

Description	Material	Plating
Contact	Brass	Gold 50 µin minimum
Insulation	PTFE	
Body	Brass	Nickel 100 µin minimum
Coupling Nut	Brass	Nickel 100 μin minimum
Crimp Sleeve	Brass	Nickel

Environmental Specifications

Temperature

Operating Range -65 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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 RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch PE4009

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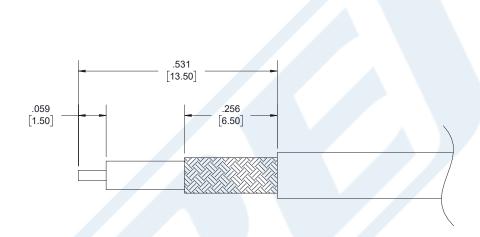
SMA Male Right Angle Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch



RF Connectors Technical Data Sheet

PE4009

Assembly Instruction



ASSEMBLY PROCEDURES

- STRIP CABLE TO THE DIMENSIONS SHOWN, DO NOT NICK CENTER CONDUCTOR OR BRAID. SLIDE FERRULE OVER CABLE.
- INSTALL CABLE INTO BODY OF CONNECTOR AND SOFT SOLDER CENTER CONDUCTOR IN PLACE.
- CRIMP FERRULE AND PRESS CAP DOWN.

CRIMP SIZE REQUIRED

FERRULE: .134 [3.40] HEX CRIMP TOOL.

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RF Connectors
Technical Data Sheet

PE4009

SMA Male Right Angle Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .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.

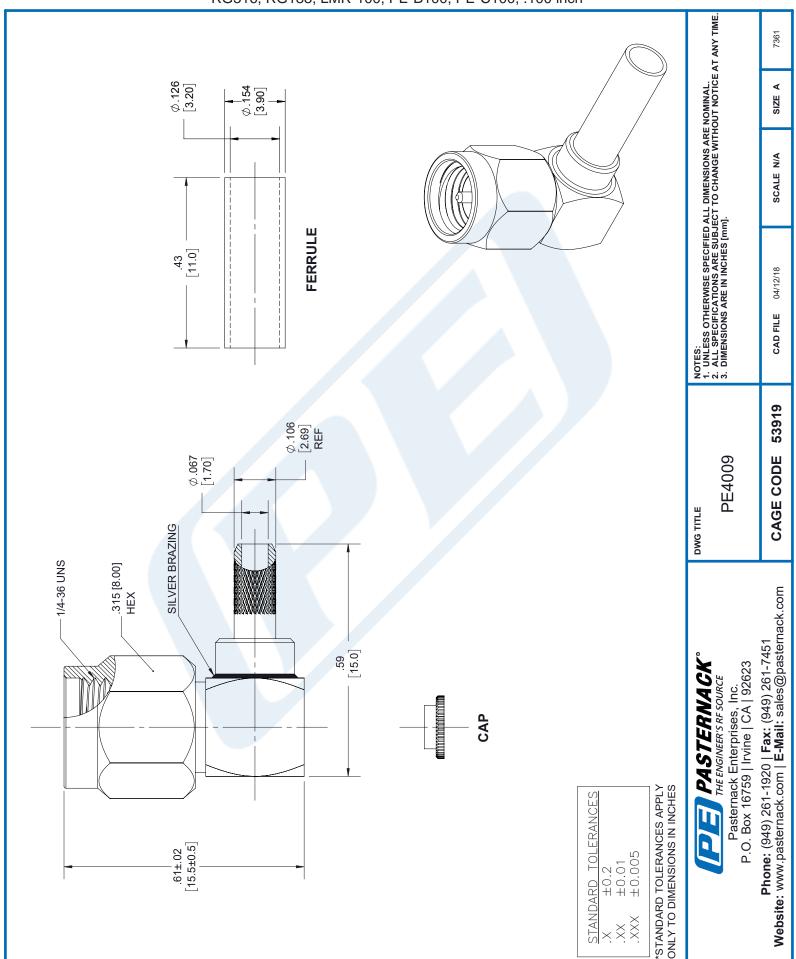
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URL: https://www.pasternack.com/sma-male-rg174-rg316-lmr-100-pe-b100-pe-c100-connector-pe4009-p.aspx

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.

PE4009 CAD Drawing

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





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



RF Connectors Technical Data Sheet

PE4551

Configuration

- MCX Plug Connector
- CECC 22220
- 50 Ohms

Features

- Max. Operating Frequency 3 GHz
- Good VSWR of 1.3:1

- Straight Body Geometry
- Connector Interface Types: RG316, RG174, RG188, LMR-100, PE-B100, PE-C100, .100 inch
- Gold Plated Brass Contact
- 30 µin minimum contact plating

Applications

General Purpose Test

Custom Cable Assemblies

Description

Pasternack's PE4551 MCX plug connector with crimp/solder attachment for RG316, RG174, RG188, LMR-100, PE-B100, PE-C100 and .100 inch is part of our full line of RF components available for same-day shipping. Our MCX plug connector operates up to a maximum frequency of 3 GHz and offers good VSWR of 1.3:1.

Our MCX plug connector PE4551 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		3	GHz
VSWR			1.3:1	
Operating Voltage (AC)			250	Vrms

Mechanical Specifications

Size

 Length
 0.79 in [20.07 mm]

 Width/Dia.
 0.217 in [5.51 mm]

 Weight
 0.009 lbs [4.08 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: MCX Plug Connector Crimp/Solder Attachment for RG316, RG174, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch PE4551

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



RF Connectors Technical Data Sheet

PE4551

Material Specifications

Description	Material	Plating
Contact	Brass	Gold 30 µin minimum
Insulation	PTFE	
Body	Brass	Nickel 100 μin minimum

Environmental Specifications

Temperature

Operating Range

-55 to +155 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

MCX Plug Connector Crimp/Solder Attachment for RG316, RG174, RG188, LMR-100, 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: MCX Plug Connector Crimp/Solder Attachment for RG316, RG174, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch PE4551

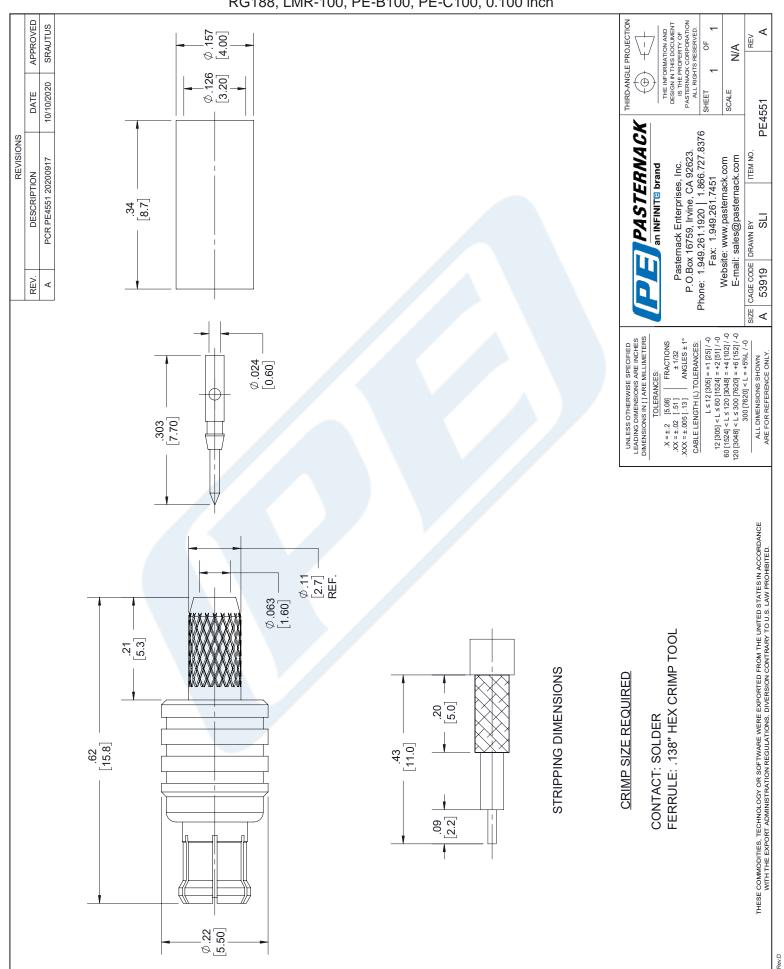
URL: https://www.pasternack.com/mcx-plug-standard-rg316-rg174-rg188-connector-pe4551-p.aspx

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PE4551 CAD Drawing

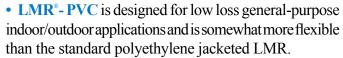
MCX Plug Connector Crimp/Solder Attachment for RG316, RG174, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch





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-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	Part Number Application Jacket Color						
LMR-100A-FR	Indoor/Outdoor Riser CMR	FRPE	Black	54037			
LMR-100A-PVC	-100A-PVC Indoor/Outdoor		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)			

LINE TODA TIME

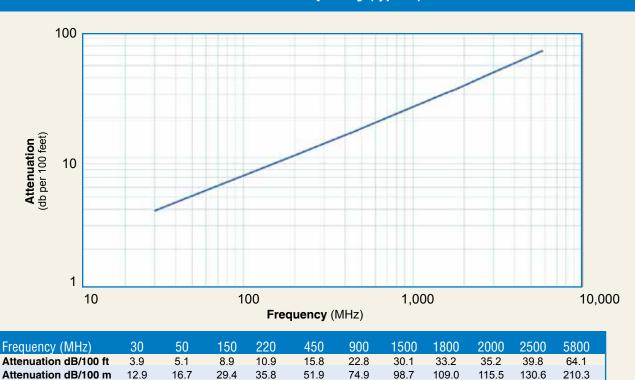
Mechanical Specifications							
Performance Property	Units	US	(metric)				
Bend Radius: installation	in. (mm)	0.25	(6.4)				
Bend Radius: repeated	in. (mm)	1	(25.4)				
Bending Moment	ft-lb (N-m)	0.1	(0.014)				
Weight	lb/ft (kg/m)	0.0092	(.014)				
Tensile Strength	lb (kg)	15	(6.8)				
Flat Plate Crush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

^{*} 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

