



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

RF Connectors Technical Data Sheet

PE4030

Configuration

- SMA Female Connector
- MIL-STD-348
- 50 Ohms
- Straight Body Geometry

- RG316, RG174, RG188, PE-B100, PE-C100, 0.100 inch, LMR-100 Interface Type
- Clamp/Solder Attachment

Features

Gold Plated Contact

Contact plating according to MIL-G-45204

Applications

• General Purpose Test

Custom Cable Assemblies

Description

Pasternack's PE4030 SMA female connector with clamp/solder attachment for RG316, RG174, 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 SMA female connector PE4030 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
 0.875 in [22.23 mm]

 Width/Dia.
 0.312 in [7.92 mm]

 Weight
 0.013 lbs [5.9 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: SMA Female Connector Clamp/Solder Attachment for RG316, RG174, RG188, PE-B100, PE-C100, 0.100 inch, LMR-100 PE4030

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

Sales@Pasternack.com • Techsupport@Pasternack.com





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

RF Connectors Technical Data Sheet

PE4030

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 Clamp/Solder Attachment for RG316, RG174, 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.

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 Clamp/Solder Attachment for RG316, RG174, RG188, PE-B100, PE-C100, 0.100 inch, LMR-100 PE4030

URL: https://www.pasternack.com/sma-female-standard-rg316-rg174-rg188-connector-pe4030-p.aspx

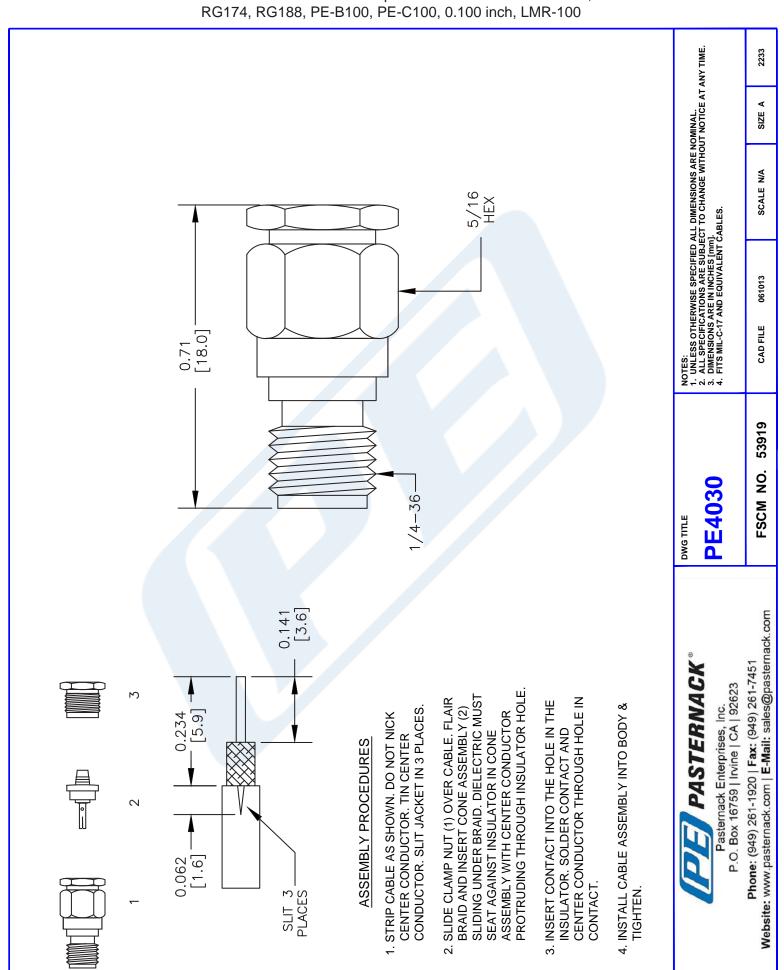
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such 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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PE4030 CAD Drawing

SMA Female Connector Clamp/Solder Attachment for RG316,





FAKRA Jack Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100, Water Blue Color



RF Connectors Technical Data Sheet

PE44646Z

Configuration

- FAKRA Jack Connector
- 50 Ohms
- Straight Body Geometry

Features

- Max. Operating Frequency 4 GHz
- Good VSWR of 1.3:1

- RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100 Interface Type
- Crimp/Solder Attachment
- Gold Plated Phosphor Bronze Contact

Applications

General Purpose Test

Custom Cable Assemblies

Description

Pasternack's PE44646Z FAKRA jack connector with crimp/solder attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100 and LMR-100 is part of our full line of RF components available for same-day shipping. Our FAKRA jack connector operates up to a maximum frequency of 4 GHz and offers good VSWR of 1.3:1.

Our FAKRA jack connector PE44646Z 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		4	GHz
VSWR			1.3:1	
Operating Voltage (AC)			335	Vrms
Dielectric Withstanding Voltage (AC)			1,000	Vrms
Inner Conductor DC Resistance			6	mOhms
Outer Conductor DC Resistance			2.5	mOhms
Insulation Resistance	1,000			MOhms

Mechanical Specifications

Size

Length 0.038 in [0.97 mm] Width/Dia. 0.37 in [9.40 mm] Height 0.54 in [13.72 mm] Weight 0.008 lbs [3.63 q]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: FAKRA Jack Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100, Water Blue Color PE44646Z

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FAKRA Jack Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100, Water Blue Color



RF Connectors Technical Data Sheet

PE44646Z

Material Specifications

Description	Material	Plating
Contact	Phosphor Bronze	Gold
Insulation	PTFE	
Outer Conductor	Brass	Nickel
Body	Plastic	

Environmental Specifications

Temperature

Operating Range

-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

FAKRA Jack Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100, Water Blue Color 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.

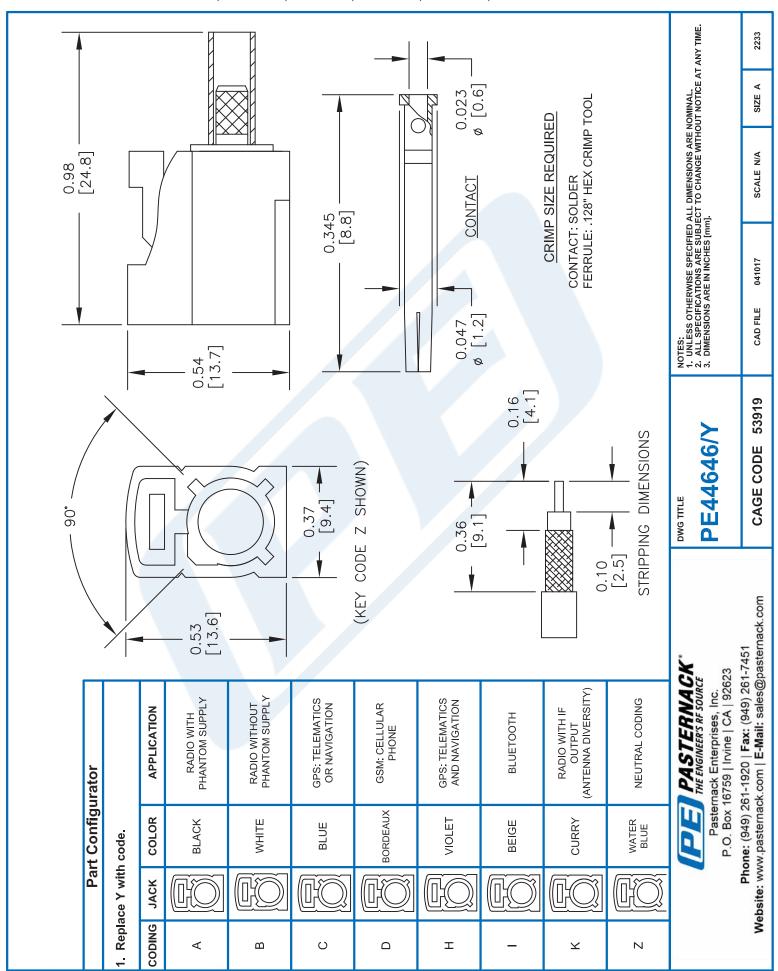
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: FAKRA Jack Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100, Water Blue Color PE44646Z

URL: https://www.pasternack.com/fakra-jack-standard-pe-c100-rg174-rg316-connector-pe44646z-p.aspx

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PE44646Z CAD Drawing

FAKRA Jack Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100, Water Blue Color





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)				

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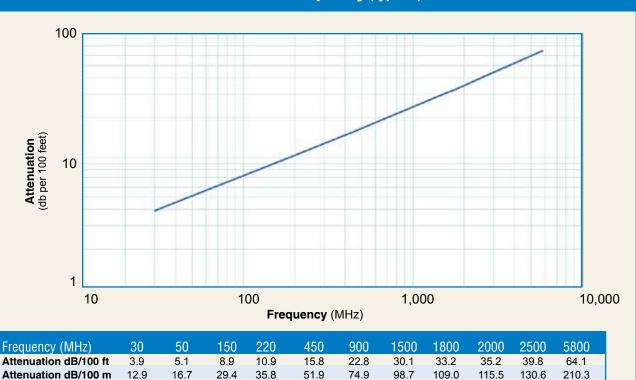
Mechanical Specifications									
Performance Property	Units	US	(metric)						
Bend Radius: installation	in. (mm)	0.25	(6.4)						
Bend Radius: repeated	in. (mm)	1	(25.4)						
Bending Moment	ft-lb (N-m)	0.1	(0.014)						
Weight	lb/ft (kg/m)	0.0092	(.014)						
Tensile Strength	lb (kg)	15	(6.8)				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

Electri	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

