

BNC Female Bulkhead Mount Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch, .480 inch D Hole



RF Connectors Technical Data Sheet

PE4106

Configuration

- BNC Female Connector
- 50 Ohms
- Straight Body Geometry
- RG174, RG316, RG188, LMR-100, PE-B100, PE-

C100, .100 inch Interface Type

- Crimp/Solder Attachment
- Bulkhead

Features

- Max. Operating Frequency 1,000 MHz
- Gold Plated Brass Contact

• 30 µin minimum contact plating

Applications

General Purpose Test

Rack and Panel Mount Applications

Custom Cable Assemblies

Description

Pasternack's PE4106 BNC female bulkhead connector with crimp/solder attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100 and .100 inch (.480 inch D hole) is part of our full line of RF components available for same-day shipping. Our BNC female connector operates up to a maximum frequency of 1,000 MHz. This BNC bulkhead connector allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Our BNC female bulkhead connector PE4106 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		1,000	MHz
Operating Voltage (AC)			500	Vrms
Dielectric Withstanding Voltage (AC)			1,500	Vrms
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Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 1					GHz
VSWR, Max	1.6:1					

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: BNC Female Bulkhead Mount Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch, .480 inch D Hole PE4106

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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RF Connectors Technical Data Sheet

PE4106

Mechanical Specifications

Size

 Length
 1.42 in [36.07 mm]

 Width/Dia.
 0.689 in [17.50 mm]

 Weight
 0.045 lbs [20.41 g]

Material Specifications

Description	Material	Plating	
Contact	Brass	Gold 30 µin minimum	
Insulation	PTFE		
Body	Brass	Nickel 100 µin minimum	
Crimp Sleeve	Brass	Nickel	
Washer	Steel	Nickel	

Environmental Specifications

Temperature
Operating Range

Operating Range -65 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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RF Connectors Technical Data Sheet

PE4106

Assembly Instruction

BNC Female Bulkhead Mount Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch, .480 inch D Hole 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: BNC Female Bulkhead Mount Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch, .480 inch D Hole PE4106

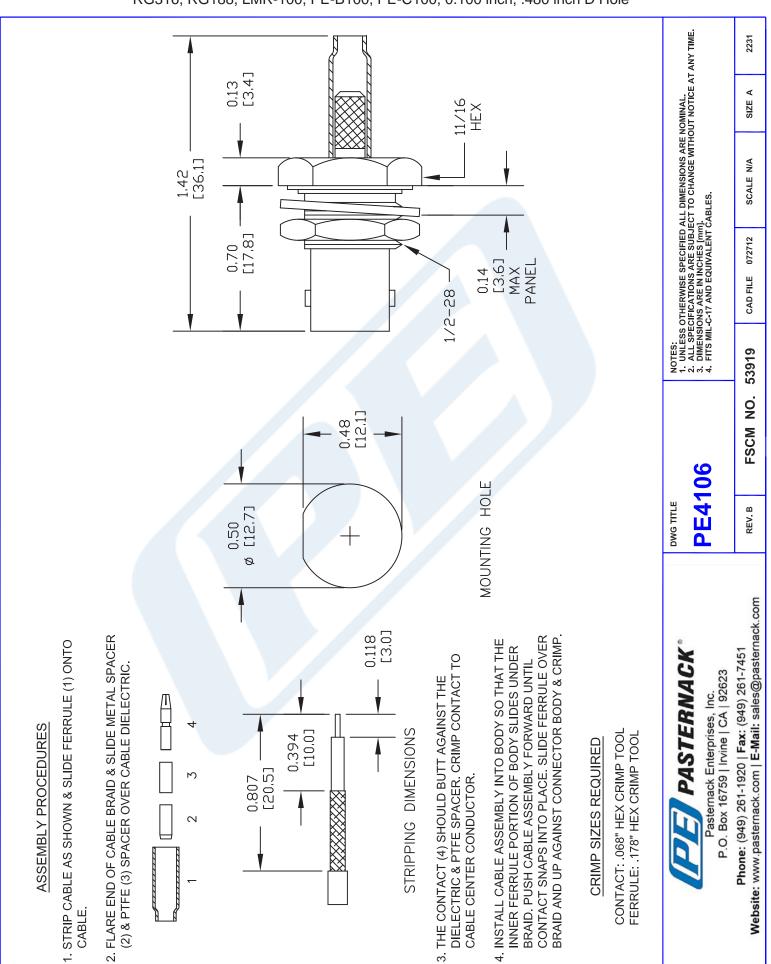
URL: https://www.pasternack.com/bnc-female-standard-rg174-rg316-rg188-connector-pe4106-p.aspx

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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PE4106 CAD Drawing

BNC Female Bulkhead Mount Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch, .480 inch D Hole





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



RF Connectors Technical Data Sheet

PE4553

Configuration

- MCX Plug Connector
- CECC 22220
- 50 Ohms
- Right Angle Body Geometry

Features

- Max. Operating Frequency 3 GHz
- Good VSWR of 1.35:1

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

- Gold Plated Brass Contact
- 30 µin minimum contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4553 MCX plug right angle connector with crimp/solder attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100 and 0.100 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 1.35:1. Its right angle body geometry allows for easier connections in tight spaces.

Our MCX plug right angle connector PE4553 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			1.35:1	
Operating Voltage (AC)			250	Vrms

Mechanical Specifications

SIZE

Length	0.54 in [13.72 mm]
Width/Dia.	0.197 in [5.00 mm]
Height	0.339 in [8.61 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 Right Angle Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch PE4553

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



RF Connectors Technical Data Sheet

PE4553

Material Specifications

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

Environmental Specifications

Temperature

Operating Range

-40 to +60 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

MCX Plug Right Angle Connector Crimp/Solder Attachment for RG174, RG316, 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% availability and are part of the broadest selection in the industry.

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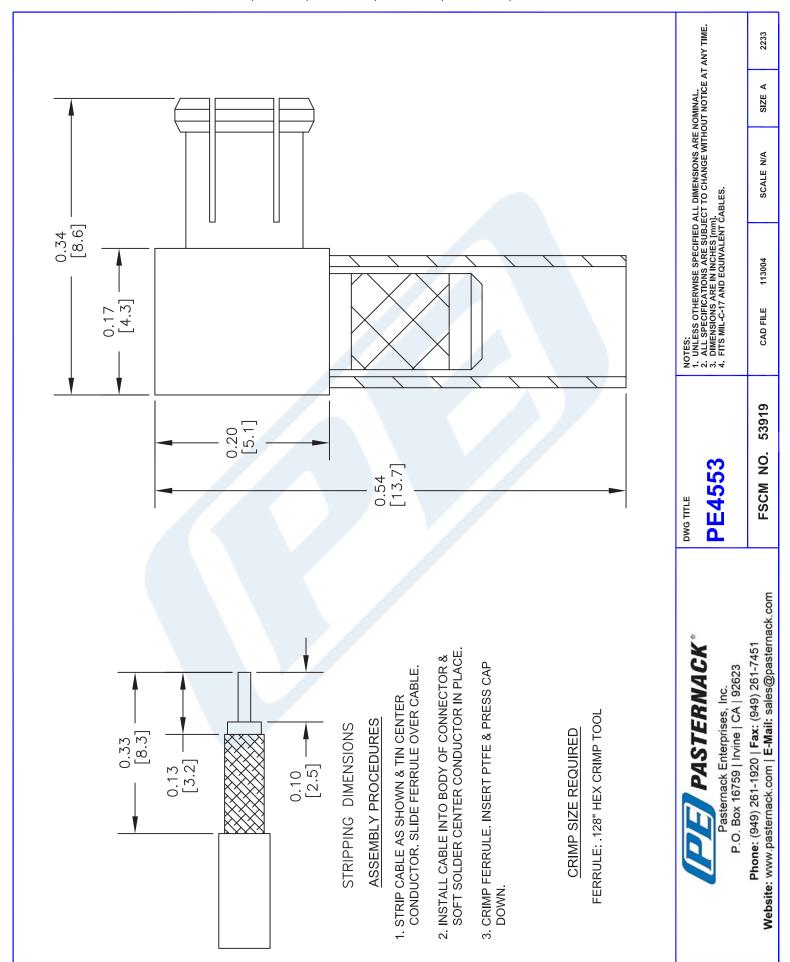
URL: https://www.pasternack.com/mcx-plug-standard-rg174-rg316-rg188-connector-pe4553-p.aspx

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PE4553 CAD Drawing

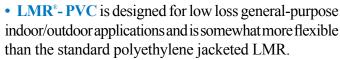
MCX Plug Right Angle Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch





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				Stock
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)	

LINE TODA TIME

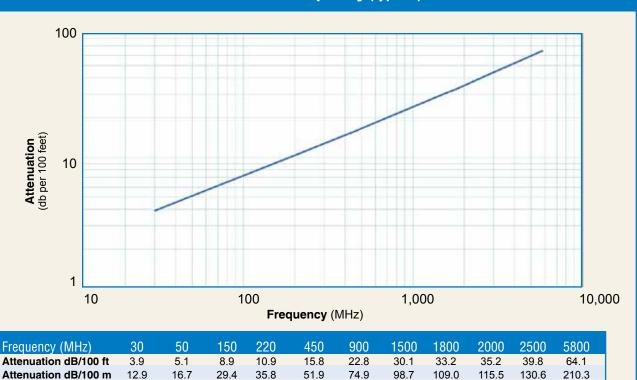
Mechanical Specifications					
Performance Property	Units	US	(metric)		
Bend Radius: installation	in. (mm)	0.25	(6.4)		
Bend Radius: repeated	in. (mm)	1	(25.4)		
Bending Moment	ft-lb (N-m)	0.1	(0.014)		
Weight	lb/ft (kg/m)	0.0092	(.014)		
Tensile Strength	lb (kg)	15	(6.8)		
Flat Plate Crush	lb/in. (kg/mm)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

luta de ca	December 1	Part	Stock			Coupling			Body	Le	ngth		idth	Wei	ght
Interface	Description	Number	Code	Freq.	(GHZ)	Nut	Attacn	Attacn	/Pin	ın	(mm)	ın	(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

