

RP TNC Female Bulkhead Mount Connector Crimp/ Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100, IP67 Rated



RF Connectors Technical Data Sheet

PE44902

Configuration

- TNC Female Reverse Polarity Connector
- 50 Ohms
- Straight Body Geometry
- •RG174, RG316, RG188, 0.100 inch, PE-B100, PE-
- C100, LMR-100 Interface Type
- Crimp/Solder AttachmentBulkhead

Features

- Max. Operating Frequency 3 GHz
- Excellent VSWR of 1.25:1
- Gold Plated Phosphor Bronze Contact

- 30 µin minimum contact plating
- Reverse Polarity
- IP67 Rated (Unmated)

Applications

General Purpose Test

Rack and Panel Mount Applications

• Custom Cable Assemblies

Description

Pasternack's PE44902 RP TNC female bulkhead 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. The female reverse polarity configuration uses a female connector body with a male inner contact pin. Our TNC female connector operates up to a maximum frequency of 3 GHz and offers excellent VSWR of 1.25:1. This TNC 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. The connector has an IP67 rating to protect against dust and temporary moisture protection under immersion conditions.

Our reverse polarity TNC female bulkhead connector PE44902 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			1.25:1	

Mechanical Specifications

Size

 Length
 1.38 in [35.05 mm]

 Width/Dia.
 0.75 in [19.05 mm]

 Weight
 0.038 lbs [17.24 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: RP TNC Female Bulkhead Mount Connector Crimp/Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100, IP67 Rated PE44902

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



RP TNC Female Bulkhead Mount Connector Crimp/ Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100, IP67 Rated



RF Connectors Technical Data Sheet

PE44902

Material Specifications

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

Environmental Specifications

Temperature

Operating Range Ingress Protection (IP) Rating

-65 to +165 deg C IP67 Rated (Unmated)

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

RP TNC Female Bulkhead Mount Connector Crimp/Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100, IP67 Rated 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: RP TNC Female Bulkhead Mount Connector Crimp/Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100, IP67 Rated PE44902

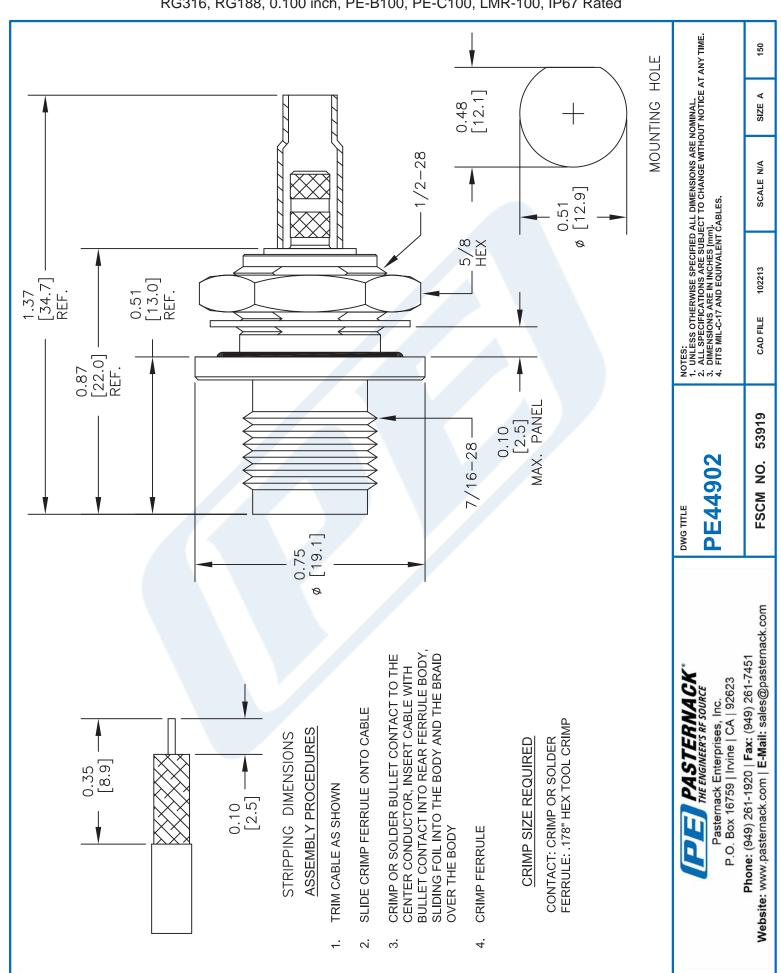
URL: https://www.pasternack.com/tnc-female-reverse-polarity-rg316-u-rg174-lmr-100-connector-pe44902-p.aspx

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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PE44902 CAD Drawing

RP TNC Female Bulkhead Mount Connector Crimp/Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100, IP67 Rated





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



RF Connectors Technical Data Sheet

PE4770

Configuration

- SMA Male Reverse Polarity Connector
- MIL-STD-348
- •50 Ohms
- Straight Body Geometry

Features

- Gold Plated Contact
- Contact plating according to MIL-G-45204

- RG174, RG316, RG188, PE-B100, PE-C100, 0.100 inch, LMR-100 Interface Type
- Clamp/Solder Attachment
- 5/16 inch Hex
- Reverse Polarity

Applications

• General Purpose Test

Custom Cable Assemblies

Description

Pasternack's PE4770 RP SMA male connector with clamp/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. The male reverse polarity configuration uses a male connector body with a female inner contact receptacle.

Our reverse polarity SMA male connector PE4770 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
 0.8 in [20.32 mm]

 Width/Dia.
 0.312 in [7.92 mm]

 Weight
 0.013 lbs [5.9 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: RP SMA Male Connector Clamp/Solder Attachment for RG174, RG316, RG188, PE-B100, PE-C100, 0.100 inch, LMR-100 PE4770

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



RF Connectors Technical Data Sheet

PE4770

Material Specifications

Description	Material	Plating
Contact		Gold MIL-G-45204
Insulation	PTFE	
Body	Brass	Nickel QQ-N-290
Coupling Nut	Brass	Nickel QQ-N-290

Environmental Specifications

Temperature

Operating Range

-65 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

RP SMA Male Connector Clamp/Solder Attachment for RG174, RG316, 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: RP SMA Male Connector Clamp/Solder Attachment for RG174, RG316, RG188, PE-B100, PE-C100, 0.100 inch, LMR-100 PE4770

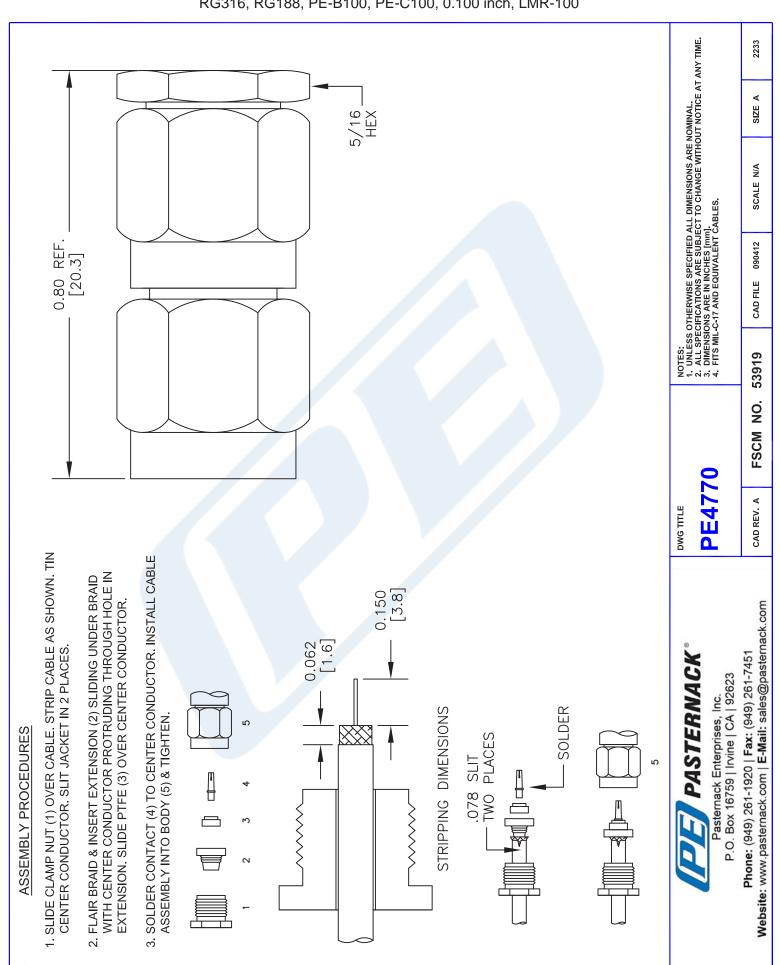
URL: https://www.pasternack.com/sma-male-reverse-polarity-rg174-rg316-rg188-connector-pe4770-p.aspx

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PE4770 CAD Drawing

RP SMA Male Connector Clamp/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)

^{*} 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

