



## 1.0/2.3 Jack Bulkhead Connector Crimp/Solder Attachment For RG174, RG316, RG188, .217 inch DD Hole

#### **TECHNICAL DATA SHEET**

PE44254

## 1.0/2.3 Jack Bulkhead Connector Crimp/Solder Attachment For RG174, RG316, RG188, .217 inch DD Hole

Configuration

Connector 1.0/2.3 Jack

Connector Interface Type RG174,RG316,RG188

Cable Attachment Method (Shield/Contact)

Body Style

Mount Method

Crimp/Solder

Straight

Bulkhead

**Electrical Specifications** 

Impedance, Ohms 50

**Mechanical Specifications** 

Size

 Length, in [mm]
 0.955 [24.26]

 Width/Dia., in [mm]
 0.275 [6.99]

 Weight, lbs [g]
 0.006 [2.72]

Connector

Type 1.0/2.3 Jack
Contact Material and Plating Gold
Body Material and Plating Brass, Gold
Dielectric Type PTFE

Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant Yes

**Plotted and Other Data** 

Notes: Values at 25 °C, sea level

1.0/2.3 Jack Bulkhead Connector Crimp/Solder Attachment For RG174, RG316, RG188, .217 inch DD Hole from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

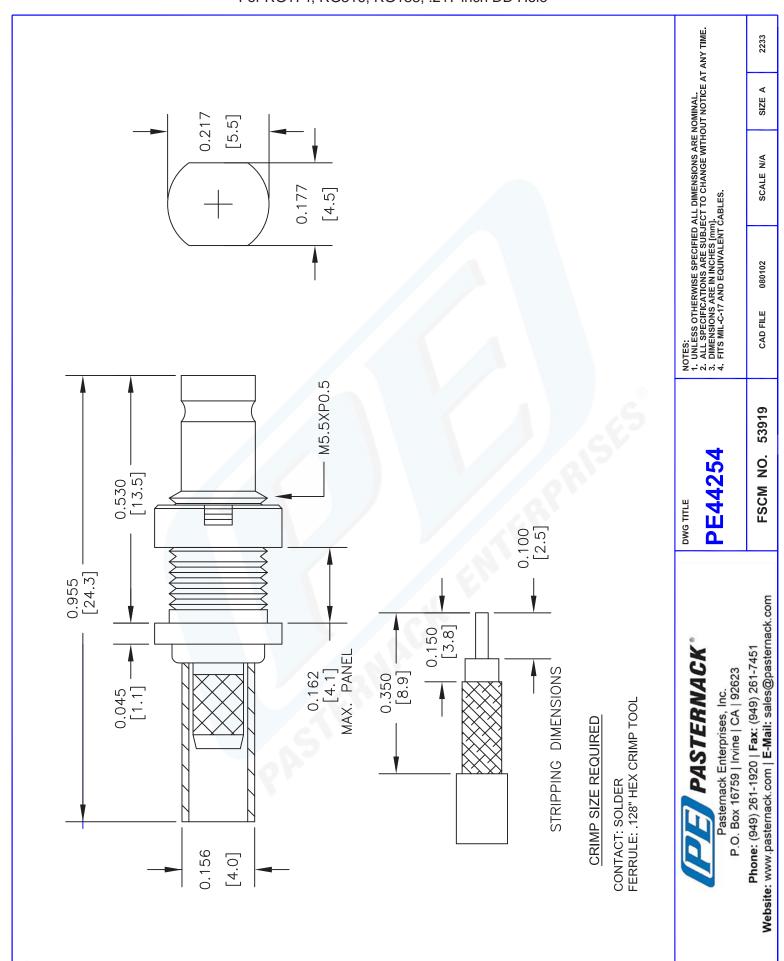
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 1.0/2.3 Jack Bulkhead Connector Crimp/Solder Attachment For RG174, RG316, RG188, .217 inch DD Hole PE44254

URL: http://www.pasternack.com/1.0-2.3-jack-standard-rg174-rg316-rg188-connector-pe44254-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.

#### PE44254 CAD Drawing

1.0/2.3 Jack Bulkhead Connector Crimp/Solder Attachment For RG174, RG316, RG188, .217 inch DD Hole





## SMA Male Connector Crimp/Solder Attachment for RG174, RG316, RG188 Gold Plated



#### **RF Connectors Technical Data Sheet**

PE45145

#### Configuration

- SMA Male Connector
- 50 Ohms
- Straight Body Geometry

- RG174, RG316, RG188 Interface Type
- Crimp/Solder Attachment
- 5/16 in Hex

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12.4	GHz

#### **Mechanical Specifications**

Size

 Length
 0.654 in [16.61 mm]

 Weight
 0.01 lbs [4.54 g]

 Mating Torque
 5 in-lbs [0.57 Nm]

#### **Material Specifications**

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

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Male Connector Crimp/Solder Attachment for RG174, RG316, RG188 Gold Plated PE45145

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 Male Connector Crimp/Solder Attachment for RG174, RG316, RG188 Gold Plated



#### **RF Connectors Technical Data Sheet**

PE45145

Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:

SMA Male Connector Crimp/Solder Attachment for RG174, RG316, RG188 Gold Plated 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 Male Connector Crimp/Solder Attachment for RG174, RG316, RG188 Gold Plated PE45145

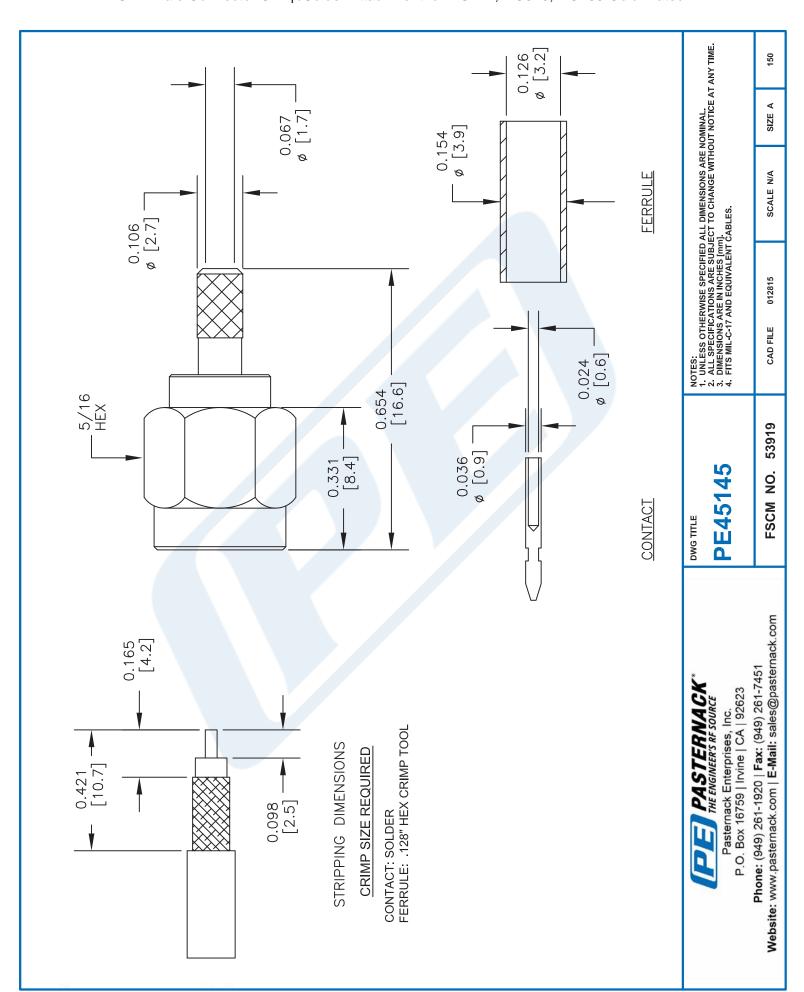
URL: https://www.pasternack.com/sma-male-rg174-rg316-rg188-connector-pe45145-p.aspx

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.

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

PE45145 CAD Drawing
SMA Male Connector Crimp/Solder Attachment for RG174, RG316, RG188 Gold Plated





# 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	R-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)					

THE TOOK TIME

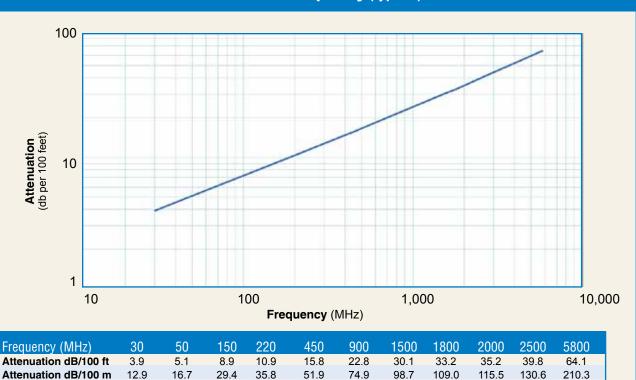
Mechanical Specifications								
Performance Property	Units	US	(metric)					
Bend Radius: installation	in. (mm)	0.25	(6.4)					
Bend Radius: repeated	in. (mm)	1	(25.4)					
Bending Moment	ft-lb (N-m)	0.1	(0.014)					
Weight	lb/ft (kg/m)	0.0092	(.014)					
Tensile Strength	lb (kg)	15	(6.8)					
Flat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

0.083



### **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)

<sup>\*</sup> 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

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

