

SSMC Plug Connector Crimp/Solder Attachment for RG316, RG174, RG188



RF Connectors
Technical Data Sheet

PE45209

Configuration

- SSMC Plug Connector
- •50 Ohms
- Straight Body Geometry

- Connector Interface Types: RG316, RG174, RG188
- 5/32 inch Hex

Features

- Max. Operating Frequency 12.4 GHz
- Good VSWR of 1.5:1

• Gold Plated Beryllium Copper Contact

Applications

General Purpose Test

Custom Cable Assemblies

Description

Pasternack's PE45209 SSMC plug connector with crimp/solder attachment for RG316, RG174 and RG188 is part of our full line of RF components available for same-day shipping. Our SSMC plug connector operates up to a maximum frequency of 12.4 GHz and offers good VSWR of 1.5:1.

Our SSMC plug connector PE45209 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		12.4	GHz
VSWR			1.5:1	
Insulation Resistance	1,000			MOhms

Mechanical Specifications

Size

 Length
 0.94 in [23.88 mm]

 Width/Dia.
 0.156 in [3.96 mm]

 Weight
 0.0033 lbs [1.5 g]

 Mating Cycles
 500 Cycles

 Mating Torque
 1 in-lbs [0.11 Nm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SSMC Plug Connector Crimp/Solder Attachment for RG316, RG174, RG188 PE45209

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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Material Specifications

Material	Plating
Beryllium Copper	Gold
PTFE	
Beryllium Copper	Gold
Beryllium Copper	Gold
	Beryllium Copper PTFE Beryllium Copper

Environmental Specifications

Temperature

Operating Range

-45 to +120 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

SSMC Plug Connector Crimp/Solder Attachment for RG316, RG174, RG188 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.

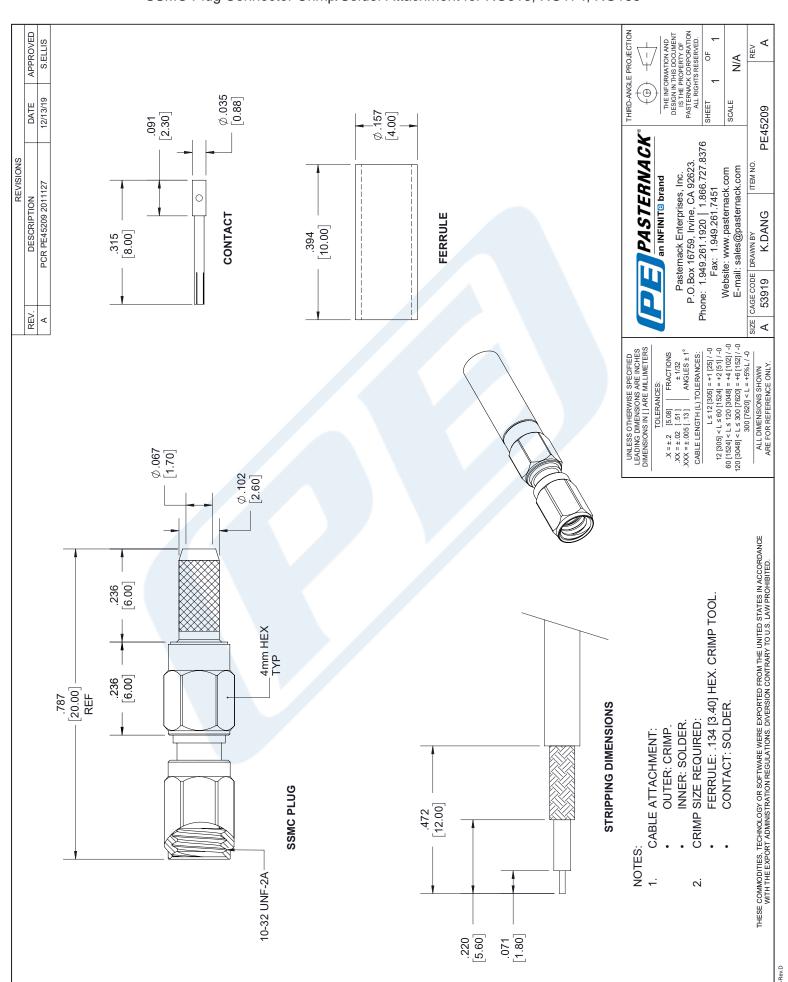
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URL: https://www.pasternack.com/ssmc-male-rg316-rg174-rg188-connector-pe45209-p.aspx

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.

PE45209 CAD Drawing

SSMC Plug Connector Crimp/Solder Attachment for RG316, RG174, RG188





TNC Male Connector Crimp/Solder Attachment for LMR-100A-PVC, PE-C100, RG174, RG188, RG316



RF Connectors Technical Data Sheet



Times Microwave Systems Connector Specification

Configuration

- TNC Male Connector
- 50 Ohms
- Straight Body Geometry

• Connector Interface Types: LMR-100A-PVC, PE-C100, RG174, RG188, RG316

Features

- Max. Operating Frequency 6 GHz
- Gold Plated Beryllium Copper Contact

• 15 µin contact plating

Applications

General Purpose Test

Custom Cable Assemblies

Description

Pasternack's SC-100-TM-D TNC male connector with crimp/solder attachment for LMR-100A-PVC, PE-C100, RG174, RG188 and RG316 is part of our full line of RF components available for same-day shipping. Our TNC male connector operates up to a maximum frequency of 6 GHz.

Our TNC male connector SC-100-TM-D 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
Dielectric Withstanding Voltage (AC)			1,000	Vrms
Insulation Resistance	5,000			MOhms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 2.2					GHz
VSWR, Max	1.25:1					
Insertion Loss, Max	0.245					dB

Electrical Specification Notes: Insertion Loss is -0.1*sqrt(FGHz)

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: TNC Male Connector Crimp/Solder Attachment for LMR-100A-PVC, PE-C100, RG174, RG188, RG316 SC-100-TM-D

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TNC Male Connector Crimp/Solder Attachment for LMR-100A-PVC, PE-C100, RG174, RG188, RG316



RF Connectors Technical Data Sheet



Mechanical Specifications

Size

1.14 in [28.96 mm] Lenath Width/Dia. 0.6 in [15.24 mm] Weight 0.043 lbs [19.5 g]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold 15 µin
Insulation	Teflon	
Body	Brass	Nickel 100 µin
Coupling Nut	Brass	Nickel 100 µin
Gasket	Silicone	

Environmental Specifications

Temperature

Operating Range -40 to +125 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: TNC Male Connector Crimp/Solder Attachment for LMR-100A-PVC, PE-C100, RG174, RG188, RG316 SC-100-TM-D

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TNC Male Connector Crimp/Solder Attachment for LMR-100A-PVC, PE-C100, RG174, RG188, RG316



RF Connectors Technical Data Sheet



TNC Male Connector Crimp/Solder Attachment for LMR-100A-PVC, PE-C100, RG174, RG188, RG316 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: TNC Male Connector Crimp/Solder Attachment for LMR-100A-PVC, PE-C100, RG174, RG188, RG316 SC-100-TM-D

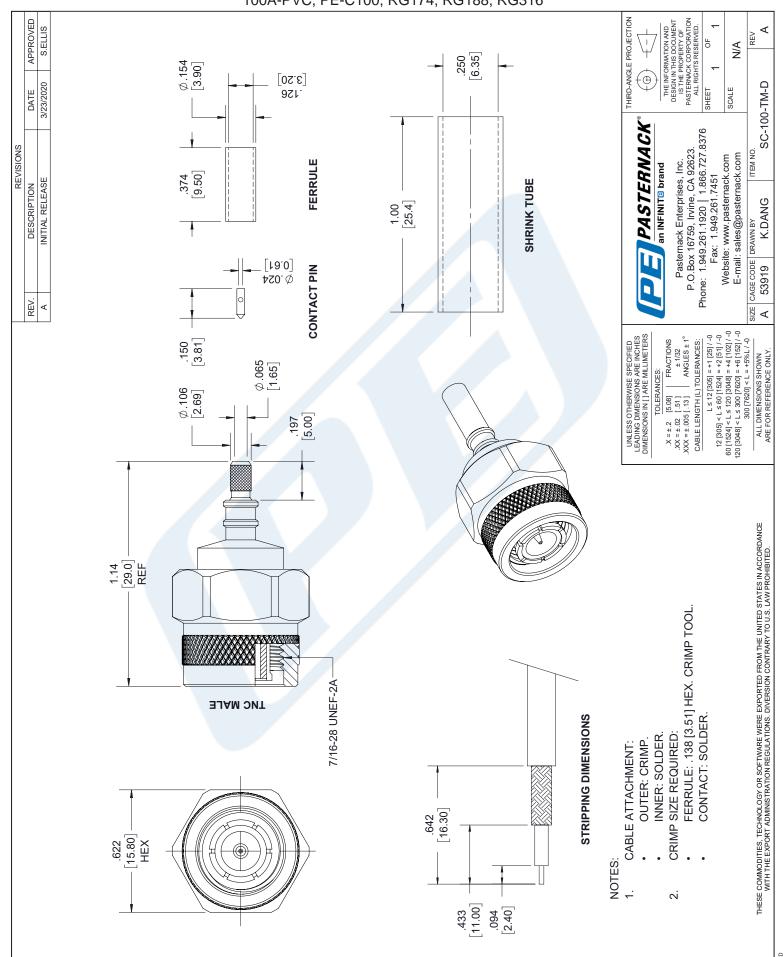
URL: https://www.pasternack.com/tnc-male-lmr-100a-pvc-pe-c100-connector-sc-100-tm-d-p.aspx

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TIMES MICROWAVE SYSTEMS SC-100-TM-D CAD Drawing TNC Male Connector Crimp/Solder Attachment for LMR-

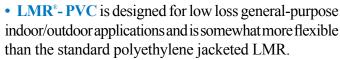
100A-PVC, PE-C100, RG174, RG188, RG316





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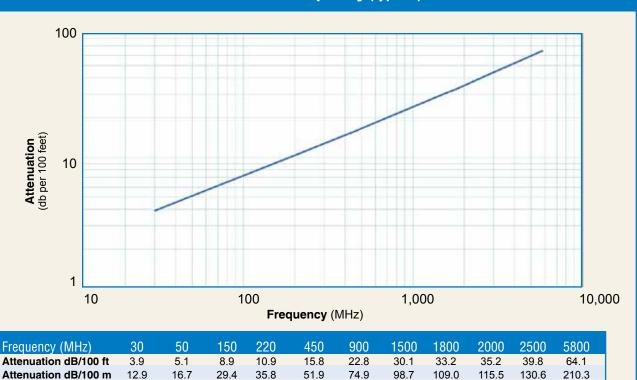
Mechanical Specifications							
Performance Property	Units	US	(metric)				
Bend Radius: installation	in. (mm)	0.25	(6.4)				
Bend Radius: repeated	in. (mm)	1	(25.4)				
Bending Moment	ft-lb (N-m)	0.1	(0.014)				
Weight	lb/ft (kg/m)	0.0092	(.014)				
Tensile Strength	lb (kg)	15	(6.8)				
Flat Plate Crush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

luta de ca	De contration	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

