

Reverse Polarity SMA Male Right Angle Connector Crimp/ Solder Attachment for RG58, RG141, PE-C195, PE-P195



RF Connectors Technical Data Sheet

PE45012

Configuration

- SMA Male Reverse Polarity Connector
- 50 Ohms
- Right Angle Body Geometry

- RG58, RG141, PE-C195, PE-P195 Interface Type
- · Crimp/Solder Attachment
- 5/16 in Hex

0.63 in [16 mm]

0.013 lbs [5.9 g]

5 in-lbs [0.57 Nm]

0.312 in [7.92 mm]

0.79 in [20.07 mm]

Mechanical Specifications

Size
Length
Width/Dia.
Height
Weight
Mating Torque

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold
Insulation	PTFE	
Body	Brass	Nickel
Coupling Nut	Brass	Nickel

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

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Reverse Polarity SMA Male Right Angle Connector Crimp/Solder Attachment for RG58, RG141, PE-C195, PE-P195 PE45012

ISO 9001 : 2008 Registered



Reverse Polarity SMA Male Right Angle Connector Crimp/ Solder Attachment for RG58, RG141, PE-C195, PE-P195



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Plotted and Other Data

Notes:

Reverse Polarity SMA Male Right Angle Connector Crimp/Solder Attachment for RG58, RG141, PE-C195, PE-P195 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: Reverse Polarity SMA Male Right Angle Connector Crimp/Solder Attachment for RG58, RG141, PE-C195, PE-P195 PE45012

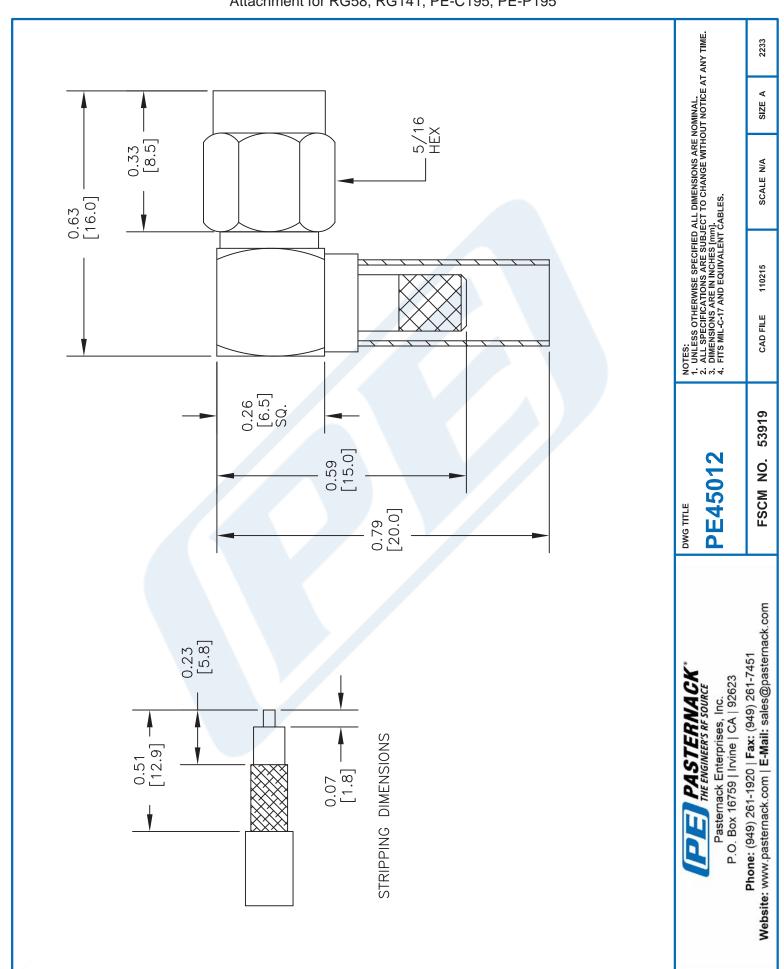
URL: http://www.pasternack.com/sma-male-reverse-polarity-rg58-rg141-pe-c195-pe-p195-connector-pe45012-p.aspx

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.



PE45012 CAD Drawing

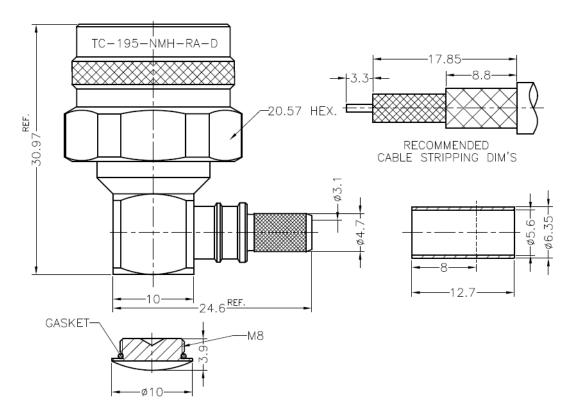
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MYZ	REVISION DESCRIPTION	DFTM	DATE	APPD	DATE
Α	RELEASED FOR PRODUCTION	D.J.H.	1/13/09	J.D.B.	1/13/09



ALL PARTS SATISFIED ROHS REQUIREMENTS

NOTE:

1. CRIMP THE FERRULE TO .217" HEX.

材料与电镀(MATE	RIALS AND PLATING)	UNIT: MICRO-INCHES
壳体,主体 BODY,SHELL	黄铜(BRASS C3604) BRASS C3604	镀三元合金80ൂ" ALBALOY PLATING THICK 80 MIN.
中心针 CONTACT PIN	黄铜 (BRASS C3604) BRASS C3604	観底,鍍金50μ " GOLD PL. 50/COPPER
绝缘体: INSULATOR	聚四氟乙烯 TEFLON MIL-P-19468	
铜 管: FERRULE	紫铜 COPPER	镀三元合金80μ" ALBALOY PLATING THICK 80 MIN.
密封圖: GASKET	硅橡胶 SILICONE	RED OR BLACK

机械特性(MECHANICAL CHARACTERISTICS)	
插入力(Force to engage and disengage)	6 lbs MAX.
中心针保持力Center contact retention force	6 lbs MIN.
螺母扭力(Coupling torque)	30 in-lbs MIN.
螺母拉力(Coupling nut retention force)	100 lbs MIN.
机械耐久性(Durability)	≥ 500 cycles

电气性能(ELECTRICAL CHARACTERISTICS)			
特性阻抗 (Impedance)		50 ♀	
工作电压(Voltage rating)		750V(rms)	
頻率范围(Frequency ran	ge)	0~6GHz	
介质附压(Dielectric withstanding voltage	e)	1000V	
接触电阻	内导	体(Center contact): ≤3mΩ	
(Contact resistance)	外导体(Outer contact)≤2m º		
- 绝缘电阻 (Insulation resistance)) ≥5000MQ		
插入损耗(Insertion loss)	根据电缆特性 (According as the cable		
射頻泄漏(RF- leakage)	N/	А	
电压驻波比(VSWR)	≤1.2 (DC-2GHz) ≤1.3 (DC-6GHz)		
三阶互调 (3rd Intermodulation)			
		U.D. (STEDIOTICO)	

环境参数(ENVIRONMENTAL CHARACTERISTICS)			
工作温度(Temperature range) -55?- +155?			
Thermal shock	US MIL- STD 202, Meth. 107, Cond. B		
Vibration	US MIL- STD 202, Meth. 204, Cond. B		
Shock	US MIL- STD 202, Meth. 213, Cond. I		
Climatic class	IEC 60068 65/165/21		

MATL:	UNLESS OTHERWISE SPECIFIED	DFTM.D.J.H.	TIMES MISDELLAVE SYSTEMS
•	ALL DIMENSIONS ARE IN mm MACHINED SURFACES FINISH 1.6 RMS MAX,	DATE 1/13/09	TIMES MICROWAVE SYSTEMS
	REMOVE ALL BURRS 0.15X45° MAX. BREAK MACHINE CORNERS 0.15X45° MAX. FILLET R.	CHKD. J. D. B.	TC-195-NMH-RA-D
USED DN: O-1	TOLERANCES ON DECIMALS	DATE 1/13/09	90° "N" MALE
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	APPD. J. D. B.	FOR LMR-195 CABLE
SCALE: N/A DWG. A	DO NOT SCALE DRAWING CODE 68999	DATE 1/13/09	╠ 1 of 1 SD3190-2425 € A

TIMES MICROWAVE SYSTEMS

LMR®-195 Flexible Low Loss Communications Coax Ideal for...

- 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
- Drop-in replacement for RG-58 and RG-142
- LMR® standard is a UV Resistant Polyethylene jacketed cable designed for 20-year service outdoor use. The bending and handling characteristics are significantly better than air-dielectric and corrugated hard-line cables.
- LMR°- DB is identical to standard LMR plus has the advantage of being watertight. The addition of waterproofing compound in and around the foil/braid insures continuous reliable service should the jacket be inadvertently damaged during installation or in the future.
- LMR*-FR is a non-halogen (non-toxic), low smoke, fire retardant cable designed for in-building runs that can be routed anywhere except air handling plenums. LMR-FR is UL/NEC & CSA rated 'CMR' and 'FT4' respectively, meets FAA FAR25 requirements and is MSHA-P for mining applications.
- LMR*- FR-PVC is a general-purpose indoor cable and has a UL/NEC & CSA rating of 'CMR' and 'FT4' respectively. It is less expensive than LMR-FR, however it emits toxic fumes (HCL) and greater smoke density when burned.
- LMR°-PVC is designed for low loss general-purpose 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 applications where color compatibility is desired.
- LMR*- MA is a flexible cable designed specifically for mobile antenna applications. It has a PVC jacket and un-bonded aluminum tape to facilitate end stripping with automated equipment.
- Flexibility and bendability are hallmarks of the LMR-195 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-195. Size for size LMR has the lowest loss of any flexible cable and comparable loss to semirigid hard-line cables.

LMR 105 TIMES MI

- **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-195 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-195 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-195 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-195	Outdoor	PE	Black	54110
LMR-195-DB	Outdoor/Watertight	PE	Black	54113
LMR-195-FR	Indoor/Outdoor Riser CMR	FRPE	Black	54111
LMR-195-FR-W	/ Indoor/Outdoor Riser CMR	FRPE	White	54158
LMR-195-FR-P	VC Indoor/Outdoor Riser Cl	MR FRP	/C Black	54105
LMR-195-MA	Mobile Antennas	PVC	Black	54210
LMR-195-PVC	General Purpose	PVC	Black	54215
LMR-195-PVC-	W General Purpose	PVC	White	54199

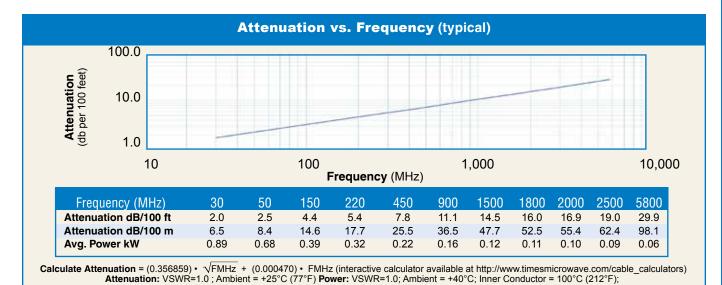
Construction Specifications					
Description	Material	In.	(mm)		
Inner Conductor	Solid BC	0.037	(0.94)		
Dielectric	Foam PE	0.110	(2.79)		
Outer Conductor	Aluminum Tape	0.116	(2.95)		
Overall Braid	Tinned Copper	0.139	(3.53)		
Jacket	(see table above)	0.195	(4.95)		



Mechanical Specifications					
Performance Property	Units	US	(metric)		
Bend Radius: installation	in. (mm)	0.5	(12.7)		
Bend Radius: repeated	in. (mm)	2.0	(50.8)		
Bending Moment	ft-lb (N-m)	0.2	(0.27)		
Weight	lb/ft (kg/m)	0.021	(0.03)		
Tensile Strength	lb (kg)	40	(18.2)		
Flat Plate Crush	lb/in. (kg/mm)	15	(0.27)		

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	%	76			
Dielectric Constant	NA	1.56			
Time Delay	nS/ft (nS/m)	1.27	(4.17)		
Impedance	ohms	50			
Capacitance	pF/ft (pF/m)	25.4	(83.3)		
Inductance	uH/ft (uH/m)	0.064	(0.21)		
Shielding Effectiveness	dB	>90			
DC Resistance					
Inner Conductor	ohms/1000ft (/km)	7.6	(24.9)		
Outer Conductor	ohms/1000ft (/km)	4.9	(16.1)		
Voltage Withstand	Volts DC	1000			
Jacket Spark	Volts RMS	3000			
Peak Power	kW	2.5			









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Sea Level; dry air; atmospheric pressure; no solar loading

Interface	Description	Part Number	Stock Code	VSWR** Freq. (GHz)	Coupling Nut	Inner Contact Attach	Outer Contact Attach	Finish* Body /Pin	Length in (mm)	Width in (mm)	Weight lb (g)
N male	Straight Plug	TC-195-NM	3190-1555	<1.25:1 (2.5)	Knurl	Solder	Crimp	S/G	1.5 (38.1)	0.75 (19.1)	0.073 (33.1)
N male	Right Angle	TC-195-NMH-RA-D	3190-2425	<1.35:1 (6)	Hex/Knurl	Solder	Crimp	A/G	1.3 (32.1)	1.19 (30.1)	0.083 (37.5)
SMA male	Straight Plug	TC-195-SM	3190-1553	<1.25:1 (2.5)	Hex	Solder	Crimp	SS/G	1.0 (25.4)	0.32 (8.1)	0.015 (6.8)
TNC male	Straight Plug	TC-195-TM	3190-1554	<1.25:1 (2.5)	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

cutting tool

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Type Pa	art Number	Stock Code	Description		
Crimp CT-24	40/200/195/100	3190-667	Crimp tool for LMR-100,195, 200 and 240 connectors		
Cutting Tool	CCT-01	3190-1544	Cable end flush cut tool		
Deburr Tool	DBT-U	3192-001	Removes center conductor rough edges		
Replacement	RB-01	3190-1609	Replacement blade for		

Blade



