



RF Connectors
Technical Data Sheet

PE4301

#### Configuration

- Standard Double Banana Plug Standard Connector
- •50 Ohms
- Straight Body Geometry

- PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, .195 inch Interface Type
- Crimp/Solder Attachment

#### **Features**

Nickel Plated Brass Contact

#### **Applications**

• General Purpose Test

Custom Cable Assemblies

#### **Description**

Pasternack's PE4301 Double Banana plug connector with crimp/solder attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195 and .195 inch is part of our full line of RF components available for same-day shipping.

Our Double Banana plug connector PE4301 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
 2.5 in [63.5 mm]

 Width/Dia.
 1.175 in [29.85 mm]

 Weight
 0.046 lbs [20.87 g]

#### **Material Specifications**

Description	Material	Plating
Contact	Brass	Nickel
Insulation	ABS	
Body	Brass	Nickel

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Double Banana Plug Connector Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, .195 inch PE4301

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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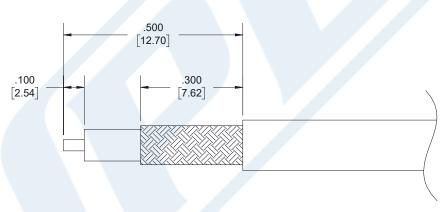
#### **Environmental Specifications**

Compliance Certifications (see product page for current document)

**Plotted and Other Data** 

Notes:

**Assembly Instruction** 



#### STRIPPING DIMENSIONS

#### **CRIMP SIZE REQUIRED**

CONTACT: .068 [1.73] HEX CRIMP TOOL.
 FERRULE: .100 [2.54] HEX CRIMP TOOL.

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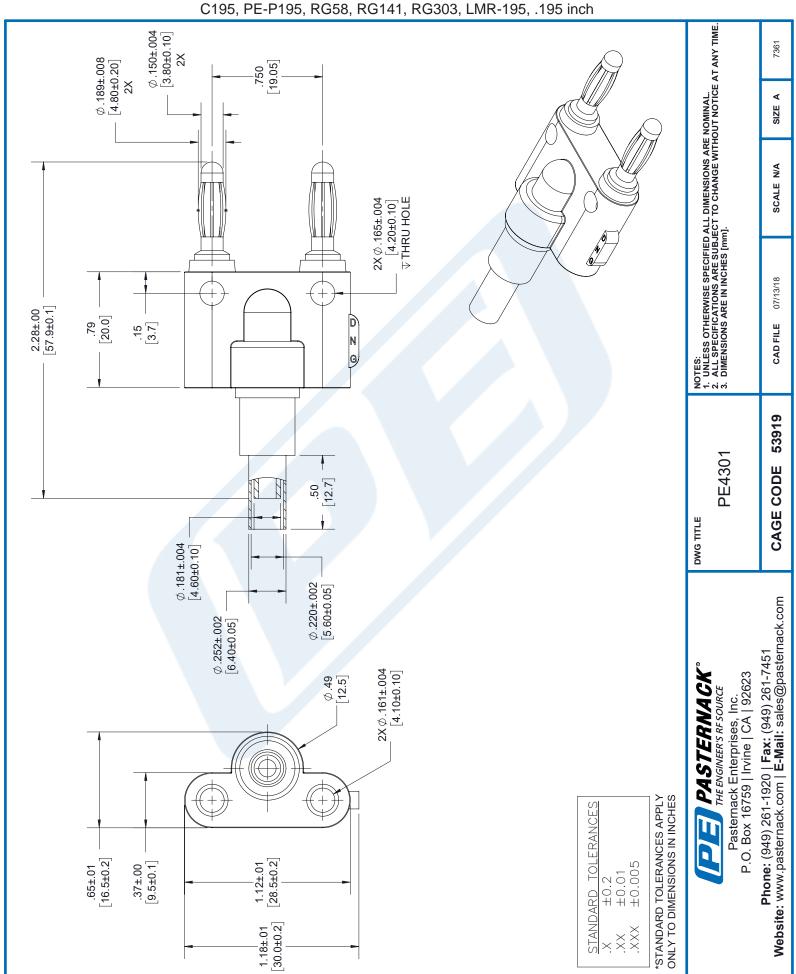
URL: https://www.pasternack.com/banana-plug-standard-rg58-connector-pe4301-p.aspx

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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## PE4301 CAD Drawing

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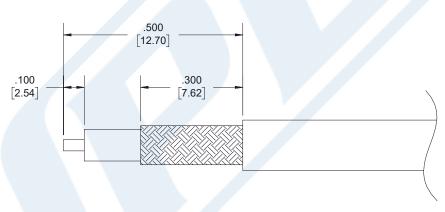
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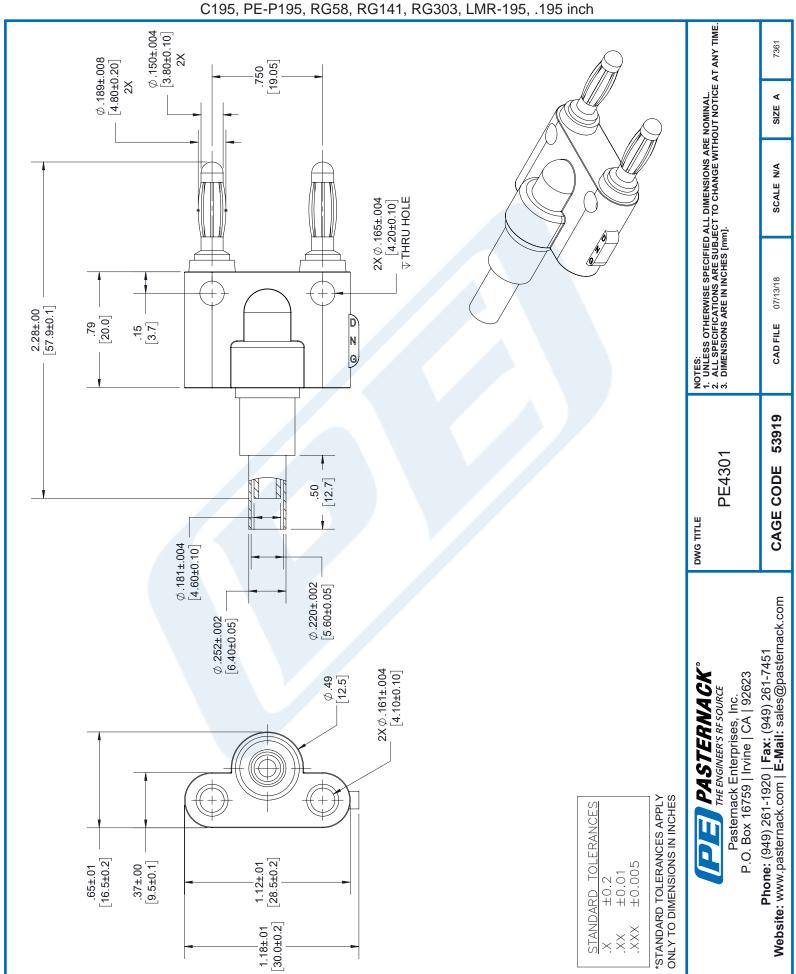
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## PE4301 CAD Drawing

Double Banana Plug Connector Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, .195 inch



## 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						
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 CN	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		

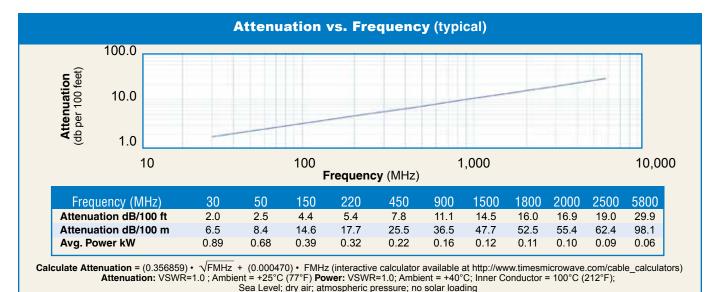
Construction Specifications						
Description	Material	In.	(mm)			
Inner Conductor	Solid BC	0.037	(0.94)			
Dielectric	Foam PE	0.110	(2.79) (2.95)			
Outer Conductor	Aluminum Tape	0.116				
Overall Braid	Tinned Copper	0.139	(3.53)			
Jacket	(see table above)	0.195	(4.95)			

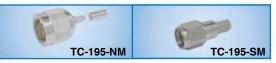


Mechanic			
Performance Property	Units	US	(metric)
Bend Radius: installation	in. (mm)	0.5	(12.7)
Bend Radius: repeated	in. (mm)	2.0	(50.8)
Bending Moment	ft-lb (N-m)	0.2	(0.27)
Weight	lb/ft (kg/m)	0.021	(0.03)
Tensile Strength	lb (kg)	40	(18.2)
Flat Plate Crush	lb/in. (kg/mm)	15	(0.27)

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				









## **Connectors**

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)

<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

		1113	Lall I	UUIS
Туре	Pa	rt Number	Stock Code	Description
Crimp (	CT-24	0/200/195/100	3190-667	Crimp tool for LMR-100,195, 200 and 240 connectors
Cutting T	Γοοl	CCT-01	3190-1544	Cable end flush cut tool
Deburr T	īool	DBT-U	3192-001	Removes center conductor rough edges
Replacen Blade	nent	RB-01	3190-1609	Replacement blade for cutting tool



