

N Female Connector Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, 0.195 inch



RF Connectors
Technical Data Sheet

PE44532

Configuration

- N Female Connector
- •50 Ohms
- Straight Body Geometry

 Connector Interface Types: PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, .195 inch

Features

• Max. Operating Frequency 11 GHz

Gold Plated Phosphor Bronze Contact

Applications

• General Purpose Test

• Custom Cable Assemblies

Description

Pasternack's PE44532 type N female 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 type N female connector operates up to a maximum frequency of 11 GHz.

Our type N female connector PE44532 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		11	GHz

Mechanical Specifications

Size

 Length
 1.45 in [36.83 mm]

 Width/Dia.
 0.67 in [17.02 mm]

 Weight
 0.071 lbs [32.21 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: N Female Connector Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, 0.195 inch PE44532

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N Female Connector Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, 0.195 inch



RF Connectors Technical Data Sheet

PE44532

Material Specifications

Phosphor Bronze	Gold	
PTFE		
Brass	Tri-Metal	
_		

Environmental Specifications

Temperature

Operating Range

-65 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

N Female Connector Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, 0.195 inch 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: N Female Connector Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, 0.195 inch PE44532

URL: https://www.pasternack.com/n-female-standard-pe-c195-0.195-connector-pe44532-p.aspx

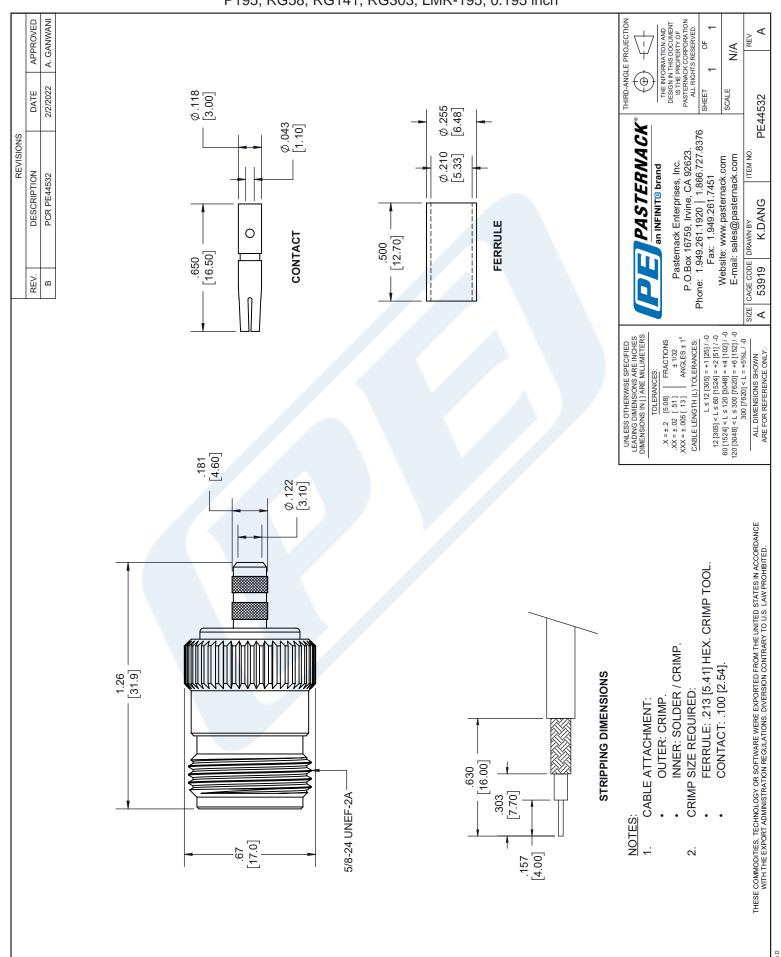
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PE44532 CAD Drawing

N Female Connector Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, 0.195 inch





TNC Male Connector Crimp/Solder Attachment for LMR-195, PE-C195

TC-195-TM-X



Times Microwave Systems Connector Specification

Configuration

- TNC Male Connector
- 50 Ohms

- Straight Body Geometry
- · Connector Interface Types: LMR-195, PE-C195

Features

· Gold Plated Beryllium Copper Contact

Applications

· General Purpose Test

· Custom Cable Assemblies

Description

Pasternack's TC-195-TM-X, TNC, Standard, Connector is part of our full line of RF components available for same-day shipping.

Our TNC male connector TC-195-TM-X 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
Operating Voltage (AC)			500	Vrms
Impedance		50		Ohms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
VSWR, Max	1.25:1					
Insertion Loss, Max	0.16					dB

Mechanical Specifications

Size	
Length	1.095 in [27.81 mm]
Width	0.6 in [15.24 mm]
Height	0.6 in [15.24 mm]
Weight	0.041 lbs [18.6 g]



TNC Male Connector Crimp/Solder Attachment for LMR-195, PE-C195



TC-195-TM-X

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold
Insulation	Teflon	
Body	Brass	Silver
Coupling Nut	Brass	Silver

Environmental Specifications

Temperature

Compliance Certifications (see product page for current document)

Plotted and Other Data

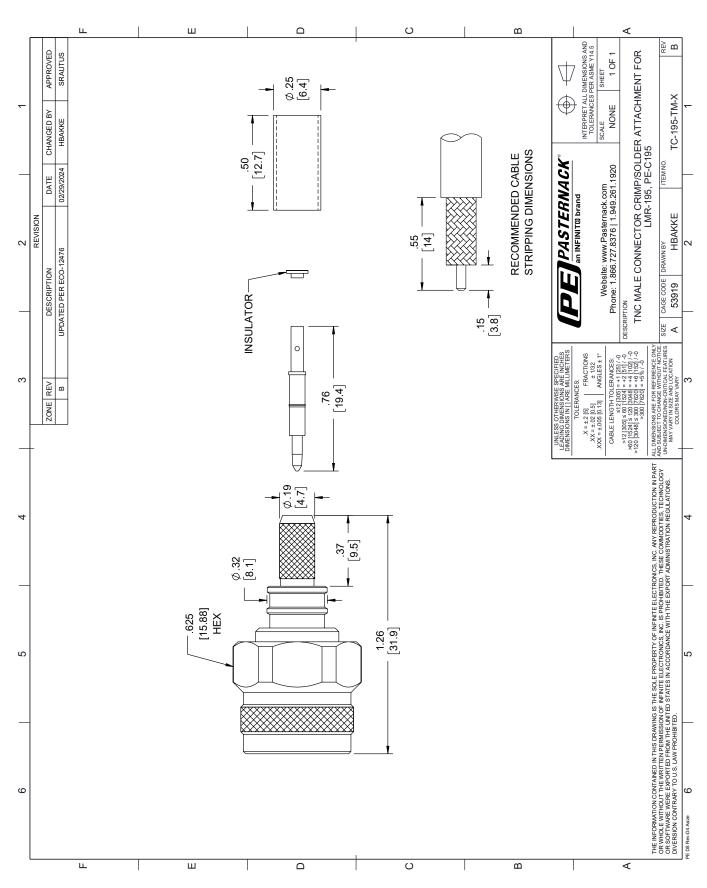
Notes:

TNC Male Connector Crimp/Solder Attachment for LMR-195, PE-C195 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-195, PE-C195 TC-195-TM-X

URL: https://www.pasternack.com/tnc-male-lmr-195-pe-c195-connector-tc-195-tm-x-p.aspx

The information contained within 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 impliment improvements. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. <u>Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.</u>



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			

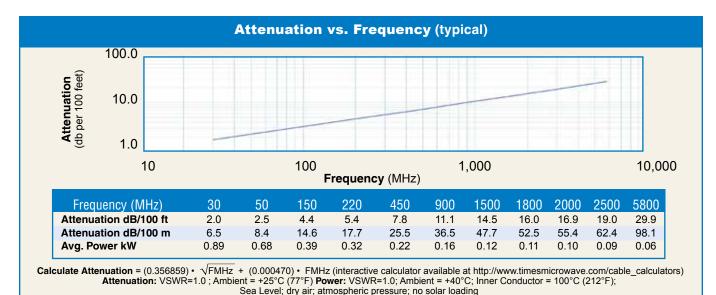
Construction Specifications								
Description	Material	In.	(mm)					
Inner Conductor	Solid BC	0.037	(0.94)					
Dielectric	Foam PE	0.110	(2.79)					
Outer Conductor	Aluminum Tape	0.116	(2.95)					
Overall Braid	Tinned Copper	0.139	(3.53)					
Jacket	(see table above)	0.195	(4.95)					



Mechan	Mechanical Specifications										
Performance Property	Units	US	(metric)								
Bend Radius: installation	n 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 Spe	ecification	S
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 DC Resistance	dB	>90						
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)

^{*} Finish metals: N=Nickel, S=Silver, G=Gold, SS=Stainless Steel, A=Alballoy **VSWR spec based on 3 foot cable with a connector pair

	ilistali 10015					
	Type	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	Tool	CCT-01	3190-1544	Cable end flush cut tool	
	Deburr To	ool	DBT-U	3192-001	Removes center conductor rough edges	
	Replacem Blade	nent	RB-01	3190-1609	Replacement blade for cutting tool	



