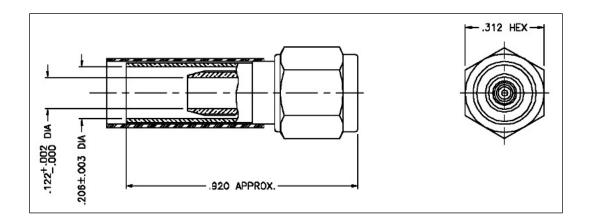
THE REVISION STATUS OF ALL SHEETS OF THIS DRAWING IS THE SAME AS SHEET 1					
LTR	DESCRIPTION	DATE	BY		
-	Released	8/20/03	JCL		
А	Changed Per CDC 37206	3/26/13	JDB		



I. MATERIALS & FINISHES

center contact: Gold Plated Brass (solder-pin)

outer contact: Stainless Steel

body: Stainless Steel coupling nut: Stainless Steel

crimp sleeve: Nickel Plated D.H.P. Copper CDA Alloy 122

dielectric: Teflon® PTFE gasket: Silicone Rubber

shrink sleeve: Adhesive Lined Polyolefin attachment: braid crimp (.213" hex)

II. ELECTRICAL PROPERTIES

impedance: 50 ohms

working voltage: 750 vrms (max) vswr: 1.25:1 (max) up to 2.5 GHz insertion loss: 0.10 x √Fghz

Unless otherwise specified, dimensions are in inches. Tolerances are applicable when spec-	Approvals			TIMES MICROWAVE SYSTEMS Wallingford, CT 06492				
ified.	Drawn	JCL	8/20/03	(203) 949-8400; (203) 949-8423.Fax www.timesmicrowave.com				
These drawings and specifications contain proprietary information							C-195-S IA Male (Pl	
which is the property of				for LMR-195Cable				
Times Microwave				Size	Size CAGE CODE Drawing No.:			No.:
Systems.				A	68999			3190-1553
				Sca	le: NA	Re	ev. A	Sheet: 1 of 1



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



RF Connectors Technical Data Sheet

PE44503

Configuration

- QMA Male Connector
- •50 Ohms
- Straight Body Geometry

- PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, 0.195 inch Interface Type
- Crimp/Solder Attachment

Features

- Max. Operating Frequency 6 GHz
- Excellent VSWR of 1.15:1

Gold Plated Brass Contact

Applications

General Purpose Test

Custom Cable Assemblies

Description

Pasternack's PE44503 QMA male connector with crimp/solder attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195 and 0.195 inch is part of our full line of RF components available for same-day shipping. Our QMA male connector operates up to a maximum frequency of 6 GHz and offers excellent VSWR of 1.15:1.

Our QMA male connector PE44503 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
VSWR			1.15:1	
Operating Voltage (AC)			333	Vrms
Dielectric Withstanding Voltage (AC)			1,000	Vrms

Mechanical Specifications

Size

 Length
 0.932 in [23.67 mm]

 Width/Dia.
 0.41 in [10.41 mm]

 Weight
 0.015 lbs [6.8 g]

 Mating Cycles
 500 Cycles

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: QMA Male Connector Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, 0.195 inch PE44503

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



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



RF Connectors Technical Data Sheet

PE44503

Material Specifications

Description	Material	Plating
Contact	Brass	Gold
Insulation	PTFE	
Outer Conductor	Phosphor Bronze	Tri-Metal
Body	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:

QMA Male 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% 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: QMA Male Connector Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, 0.195 inch PE44503

URL: https://www.pasternack.com/qma-male-standard-rg58-rg141-connector-pe44503-p.aspx

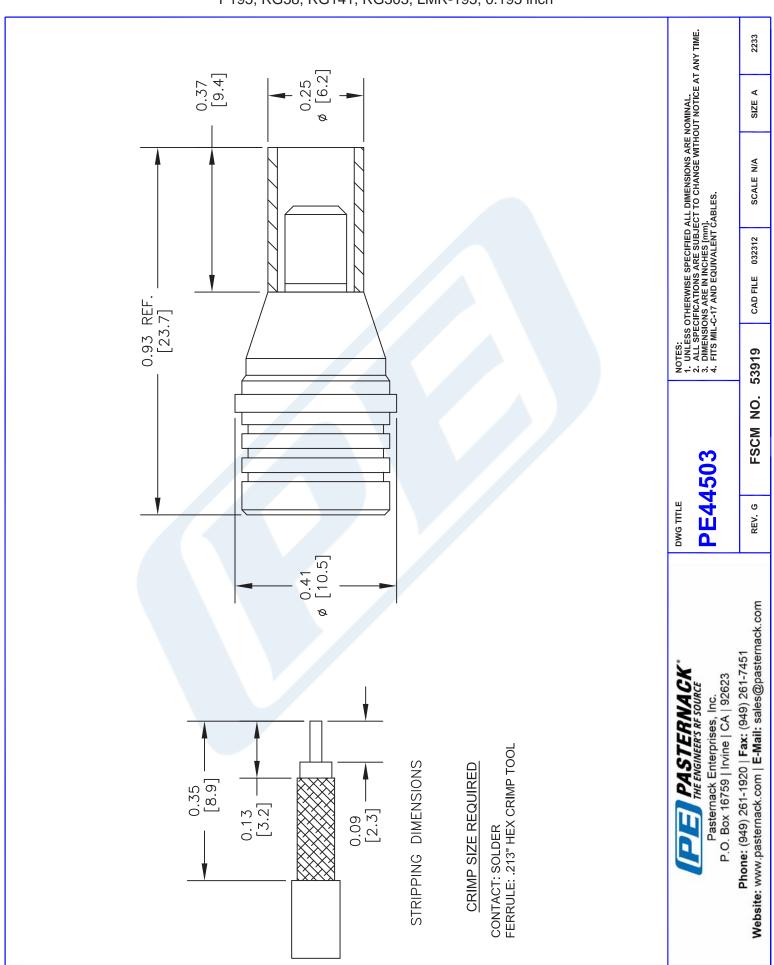
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such 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

PE44503 CAD Drawing

QMA Male Connector Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, 0.195 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			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

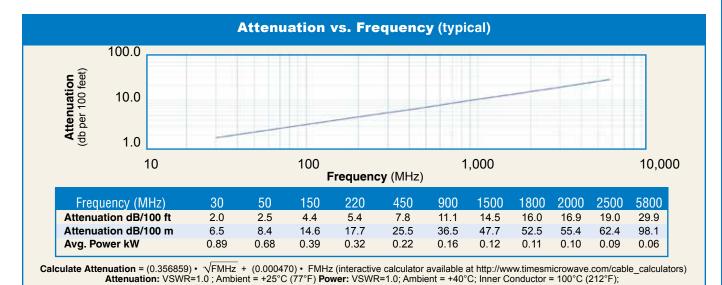
Construction Specifications							
Description	Material	In.	(mm)				
Inner Conductor	Solid BC	0.037	(0.94)				
Dielectric	Foam PE	0.110	(2.79)				
Outer Conductor	Aluminum Tape	0.116	(2.95)				
Overall Braid	Tinned Copper	0.139	(3.53)				
Jacket	(see table above)	0.195	(4.95)				



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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Co	nn	ec	TO.	rs

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

		tall l	7013
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



