



## QN Male Connector Crimp/Solder Attachment For RG58, RG141, RG303

### TECHNICAL DATA SHEET

PE44596

#### QN Male Connector Crimp/Solder Attachment For RG58, RG141, RG303

##### Configuration

Connector	QN Male
Connector Interface Type	RG58, RG141, RG303
Cable Attachment Method (Shield/Contact)	Crimp/Solder
Body Style	Straight

##### Electrical Specifications

Frequency Range, GHz	DC to 11
Impedance, Ohms	50
Maximum Operating Voltage, Volts	1,000
Dielectric Withstanding Voltage, Vrms	2,500

##### Frequency 1

Frequency, MHz	DC to 1,000
Return Loss, dB	32
Insertion Loss, dB	0.05

##### Frequency 2

Frequency, GHz	1 to 2.5
VSWR	1:1
Insertion Loss, dB	0.08
Power Handling, Watts	300

##### Frequency 3

Frequency, GHz	2.5 to 6
Return Loss, dB	27
Insertion Loss, dB	0.12

##### Mechanical Specifications

###### Temperature

Operating Range, deg C	-40 to +125
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###### Size

Length, in [mm]	1.355 [34.42]
Width/Dia., in [mm]	0.748 [19.00]
Weight, lbs [g]	0.068 [30.84]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [QN Male Connector Crimp/Solder Attachment For RG58, RG141, RG303 PE44596](#)

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.



## QN Male Connector Crimp/Solder Attachment For RG58, RG141, RG303

### TECHNICAL DATA SHEET

PE44596

#### Connector

Type	QN Male
Mating Cycles	100
Contact Material and Plating	Brass, Gold
Body Material and Plating	Brass, Tri-Metal
Dielectric Type	PTFE

#### Compliance Certifications (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

RoHS Compliant	Yes
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#### Plotted and Other Data

Notes:	Values at 25 °C, sea level
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QN Male Connector Crimp/Solder Attachment For RG58, RG141, RG303 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic 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: [QN Male Connector Crimp/Solder Attachment For RG58, RG141, RG303 PE44596](http://www.pasternack.com/qn-male-standard-rg58-rg141-rg303-connector-pe44596-p.aspx)

URL: <http://www.pasternack.com/qn-male-standard-rg58-rg141-rg303-connector-pe44596-p.aspx>

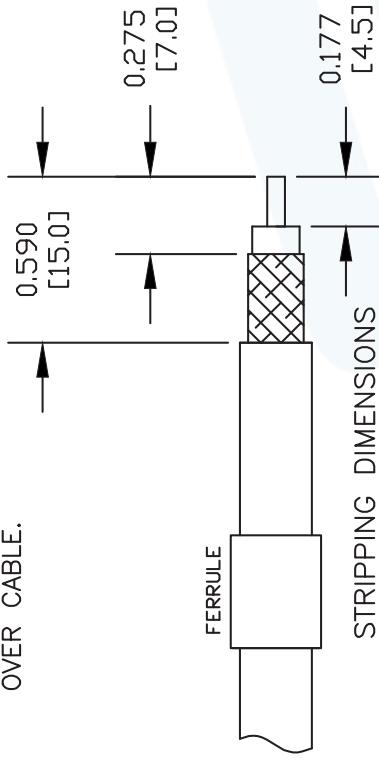
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# PE44596 CAD Drawing

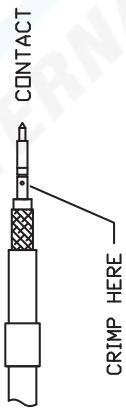
QN Male Connector Crimp/Solder Attachment For RG58, RG141, RG303

## ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN. SLIDE FERRULE OVER CABLE.



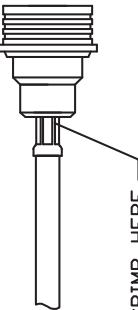
2. INSERT DIELECTRIC INTO CONTACT AND CRIMP IT WITH .100" HEX CRIMP TOOL. SPLAY OUT THE BRAID.



3. INSERT STRIPPED CABLE INTO BODY UNTIL CONTACT ENGAGES PERCEPTIBLY.



4. SLIDE FERRULE OVER BRAID UP TO THE CONNECTOR BODY AND CRIMP AS CLOSE TO THE CONNECTOR BODY AS POSSIBLE USING A .213" HEX CRIMP TOOL.



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**DWG TITLE  
PE44596**

NOTES:  
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  
3. DIMENSIONS ARE IN INCHES [mm].  
4. FITS MIL-C-17 AND EQUIVALENT CABLES.

SIZE A  
xxxx

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SIZE A  
xxxx

QN Male Right Angle Connector Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, 0.195 inch, IP68



## RF Connectors Technical Data Sheet

PE44601

### Configuration

- QN Male Connector
- 50 Ohms
- Right Angle Body Geometry
- PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, 0.195 inch Interface Type
- Crimp/Solder Attachment

### Features

- Max. Operating Frequency 11 GHz
- Gold over Nickel Plated Brass Contact
- IP68 0.3 bar (interface only)

### Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE44601 QN male right angle 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 QN male connector operates up to a maximum frequency of 11 GHz. Its right angle body geometry allows for easier connections in tight spaces. The connector has an IP68 rating to protect against dust and prolonged moisture protection under immersion conditions.

Our QN male right angle connector PE44601 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
Operating Voltage (AC)			1,000	Vrms
Test Voltage (AC)			2,500	Vrms
Inner Conductor DC Resistance			1.5	mOhms
Outer Conductor DC Resistance			1.5	mOhms
Insulation Resistance	5,000			MOhms

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 2.5	2.5 to 4	4 to 6			GHz
VSWR, Max	1.06:1	1.16:1	1.23:1			

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [QN Male Right Angle Connector Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, 0.195 inch, IP68 PE44601](#)

QN Male Right Angle Connector Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, 0.195 inch, IP68



## RF Connectors Technical Data Sheet

PE44601

### Electrical Specification Notes:

RF leakage: 90 dB (up to 3 GHz) min.  
 Insertion loss =  $0.05 \times \text{sqrt}(f\text{GHz})$  dB max.

### Mechanical Specifications

#### Size

Length	0.894 in [22.71 mm]
Width/Dia.	0.748 in [19.00 mm]
Height	1.039 in [26.39 mm]
Weight	0.137 lbs [62.14 g]
Mating Cycles	100 Cycles

### Material Specifications

Description	Material	Plating
Contact	Brass	Gold over Nickel
Insulation	PTFE	
Body	Brass	Tri-Metal

### Environmental Specifications

#### Temperature

Operating Range	-40 to +125 deg C
Ingress Protection (IP) Rating	IP68 0.3 bar (interface only)
Humidity	MIL-STD-202, Method 106
Shock	MIL-STD-202, Method 213, Condition I
Vibration	MIL-STD-202, Method 204, Condition A
Thermal Shock	MIL-STD-202, Method 107, Condition B
Salt Spray	MIL-STD-202, Method 101, Condition B

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [QN Male Right Angle Connector Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, 0.195 inch, IP68 PE44601](#)

QN Male Right Angle Connector Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, 0.195 inch, IP68



## RF Connectors Technical Data Sheet

PE44601

**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Notes:

QN Male Right Angle Connector Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, 0.195 inch, IP68 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.

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URL: <https://www.pasternack.com/qn-male-standard-rg58-rg141-rg303-connector-pe44601-p.aspx>

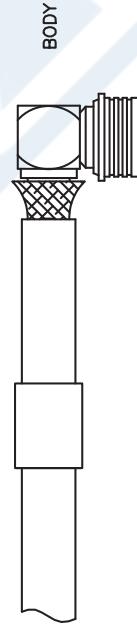
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# PE44601 CAD Drawing

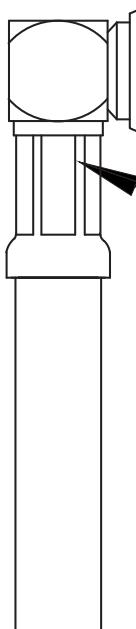
QN Male Right Angle Connector Crimp/Solder Attachment for PE-C195,  
PE-P195, RG58, RG141, RG303, LMR-195, 0.195 inch, IP68

## ASSEMBLY PROCEDURES

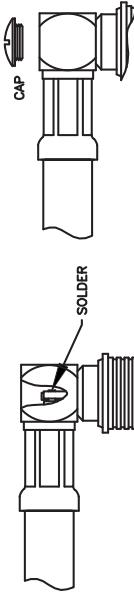
1. STRIP CABLE AS SHOWN. SLIDE FERRULE OVER CABLE.
2. FLAIR BRAID AND INSERT THE STRIPPED CABLE INTO BODY AND POSITION THE CENTER CONDUCTOR IN THE SLOT OF THE CENTER PIN.



3. SLIDE FERRULE OVER BRAID UP TO THE CONNECTOR BODY AND CRIMP AS CLOSE TO THE CONNECTOR BODY AS POSSIBLE USING A .213" HEX CRIMP TOOL.



4. SOLDER THE CENTER CONDUCTOR OF THE CABLE TO THE CENTER PIN. TIGHTEN DOWN THE CAP INTO THE REAR APERTURE OF THE BODY.



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DWG TITLE	PE44601
FSCM NO. 53919	CAD FILE 061608 SCALE N/A SIZE A XXXX

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4. FITS MIL-C-17 AND EQUIVALENT CABLES.

## Low Loss Flexible RG58 Type Coax Cable Double Shielded with Black PE Jacket

### RF Cables Technical Data Sheet

PE-C195

#### Configuration

- Low Loss Flexible Cable
- 2 Shield(s)

#### Features

- Low Loss
- Double Shielded
- PE Jacket
- Velocity of Propagation 80%
- Shielding Effectiveness > 90 dB

#### Applications

- Antenna Feeds
- Communication Systems
- Wireless Systems
- Indoor / Outdoor Uses
- Direct Burial
- Jumper Cable Assemblies

#### Description

Flexible coaxial cable are ideal for applications where tight bends and continual flexure are required. Pasternack's PE-C195 is a low loss flexible RG58 type coax cable with PE jacket. The double shielding of this low loss cable provides better electrical performance than the standard RG-58 cable including excellent shielding effectiveness of better than 90 dB. This Pasternack cable's PE jacket makes it suitable for indoor/outdoor uses and direct burial applications. PE-C195 RG58 type datasheet specifications and outline drawing for this flexible cable are shown in the PDF below.

Pasternack carries a wide range of cables ready to ship same day to fit your needs. They are available in corrugated, flexible, formable or semi-rigid versions with different constructions of conductor materials, dielectric materials, shielding configurations and jacket materials. Our cables are designed to fit a wide range of performance criteria including attenuation, operating temperature, environmental factor, and power capability.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
Cutoff Frequency		41		GHz
Impedance		50		Ohms
Velocity of Propagation		80		%
Shielding Effectiveness	90			dB
Jacket Spark			5,000	Vrms
Nominal Capacitance		25.4 [83.33]		pF/ft [pF/m]
Input Power (Peak)			2.5	KWatts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low Loss Flexible RG58 Type Coax Cable Double Shielded with Black PE Jacket PE-C195](#)

## Low Loss Flexible RG58 Type Coax Cable Double Shielded with Black PE Jacket

### RF Cables Technical Data Sheet

PE-C195

#### Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.15	0.22	0.45	0.9	1.5	GHz
Attenuation, Max	4.4	5.4	7.8	11.1	14.5	dB/100ft
	14.44	17.72	25.59	36.42	47.57	dB/100m
Attenuation, Typ	4.3	5.2	7.5	10.7	13.4	dB/100ft
	14.11	17.06	24.61	35.1	43.96	dB/100m
Input Power (CW), Max	350	290	200	140	110	Watts
Description	F6	F7	F8	F9	F10	Units
Frequency	1.8	2	2.5	5.8		GHz
Attenuation, Max	16	16.9	19	29.9		dB/100ft
	52.49	55.45	62.34	98.1		dB/100m
Attenuation, Typ	15.3	16.1	18.1	28.2		dB/100ft
	50.2	52.82	59.38	92.52		dB/100m
Input Power (CW), Max	100	90	80	50		Watts

#### Mechanical Specifications

Diameter	0.195 in [4.95 mm]
Weight	0.021 lbs/ft [0.03 Kg/m]
Min. Bend Radius (Installation)	0.5 in [12.7 mm]
Min. Bend Radius (Repeated)	2 in [50.8 mm]

#### Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, 1 Strands	0.037 in [0.94 mm]
Conductor Type	Solid	
Dielectric	PE (F)	0.11 in [2.79 mm]
First Shield	Aluminum Tape	

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low Loss Flexible RG58 Type Coax Cable Double Shielded with Black PE Jacket PE-C195](#)

## Low Loss Flexible RG58 Type Coax Cable Double Shielded with Black PE Jacket

### RF Cables Technical Data Sheet

PE-C195

Second Shield	Tinned Copper Braid	0.139 in [3.53 mm]
Jacket	PE, Black	0.195 in [4.95 mm]

#### Environmental Specifications

**Temperature**

Operating Range

-40 to +85 deg C

Installation Range

-70 to +85 deg C

Storage Range

-40 to +85 deg C

#### Compliance Certifications (see [product page](#) for current document)

#### Plotted and Other Data

Notes:

Low Loss Flexible RG58 Type Coax Cable Double Shielded with Black PE Jacket 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.

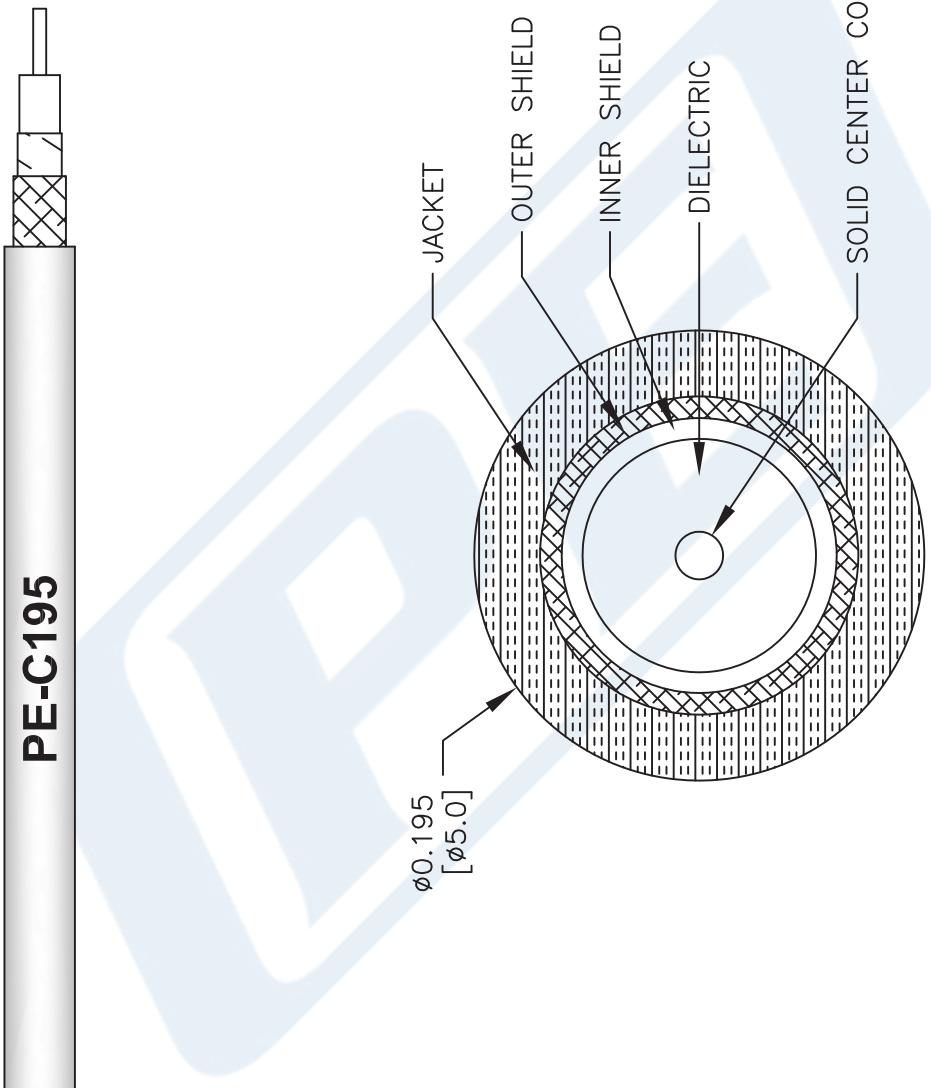
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URL: <https://www.pasternack.com/flexible-0.195-50-ohm-coax-cable-pe-jacket-pe-c195-p.aspx>

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# PE-C195 CAD Drawing

Low Loss Flexible RG58 Type Coax Cable Double Shielded with Black PE Jacket



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DWG TITLE	PE-C195	NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].
FSCM NO.	53919	CAD FILE 111716 SCALE N/A SIZE A 41742