



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

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**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.

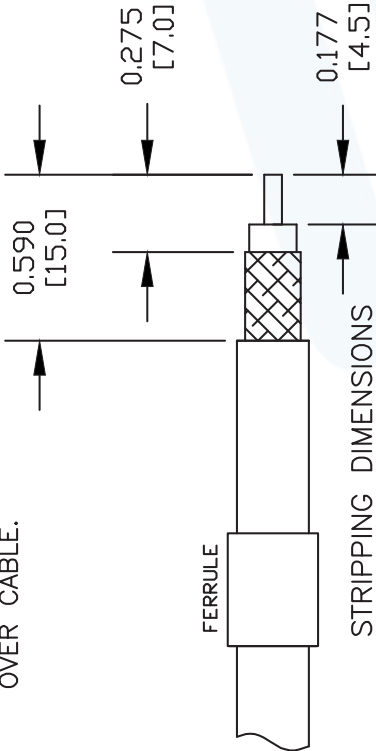
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URL: <http://www.pasternack.com/qn-male-standard-rg58-rg141-rg303-connector-pe44596-p.aspx>

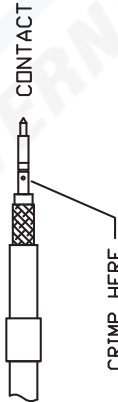
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ASSEMBLY PROCEDURES

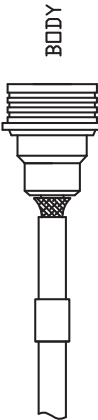
1. STRIP CABLE AS SHOWN. SLIDE FERRULE OVER CABLE.



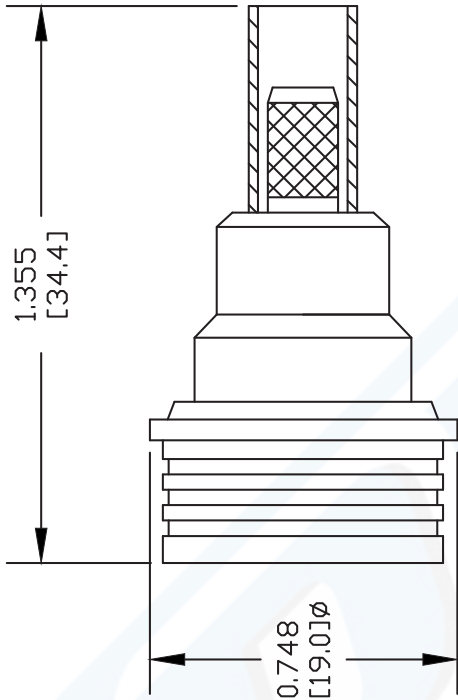
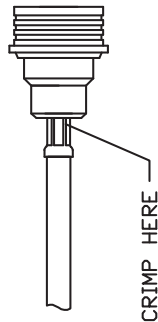
2. INSERT DIELECTRIC INTO CONTACT AND CRIMP IT WITH .100" HEX CRIMP TOOL. SPLAY OUT THE BRAID.



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.



Pasternack Enterprises, Inc.  
P.O. Box 16759 | Irvine | CA | 92623  
Phone: (949) 261-1920 | Fax: (949) 261-7451  
Website: [www.pasternack.com](http://www.pasternack.com) | E-Mail: [sales@pasternack.com](mailto:sales@pasternack.com)

DWG TITLE

PE44596

FSCM NO. 53919

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.

CAD FILE

081808

SCALE N/A

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 =  $0.05 \times \sqrt{f(\text{GHz})}$  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

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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>

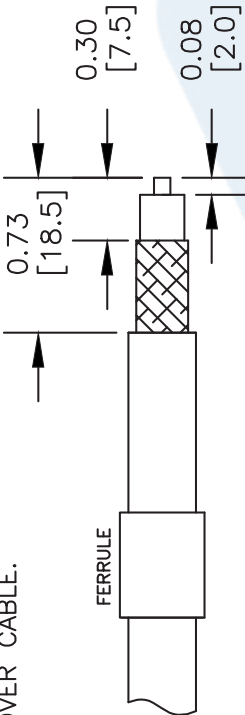
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# PE44601 CAD Drawing

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

## ASSEMBLY PROCEDURES

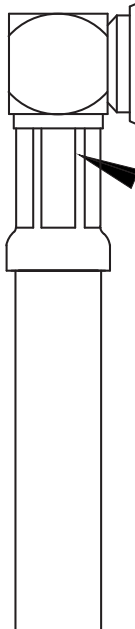
1. STRIP CABLE AS SHOWN. SLIDE FERRULE OVER CABLE.



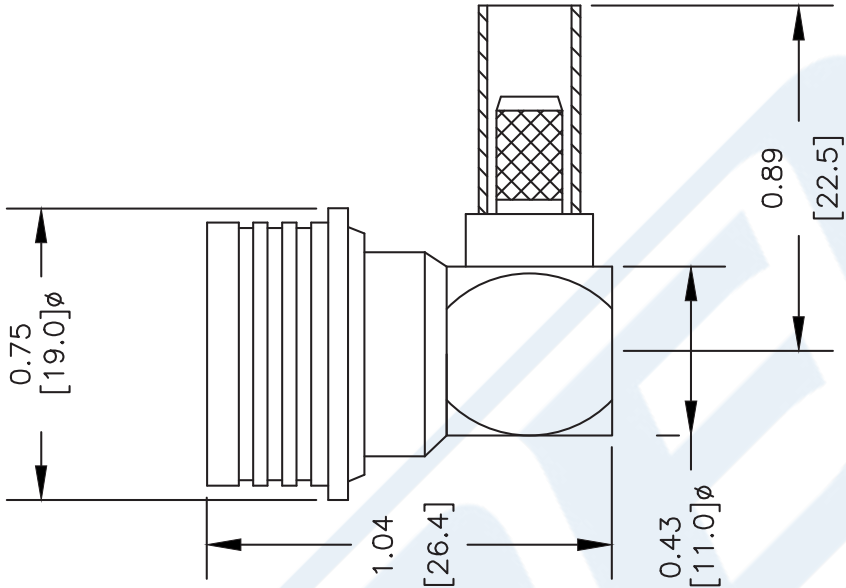
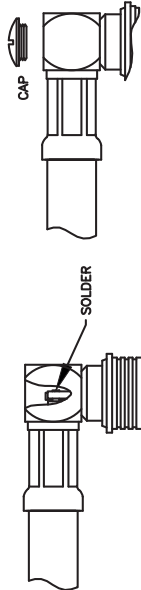
2. FLAIR BRAID AND INSERT THE STRIPPED CABLE INTO BODY AND POSITION THE CENTER CONDUCTOR IN THE SLOT OF THE CENTER PIN.



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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3. DIMENSIONS ARE IN INCHES [mm].  
4. FITS MIL-C-17 AND EQUIVALENT CABLES.

DWG TITLE

PE44601

FSCM NO. 53919

CAD FILE 061608

SCALE N/A

SIZE A

XXXX

**PE PASTERNAK®**

Pasternack Enterprises, Inc.

P.O. Box 16759 | Irvine | CA | 92623

Phone: (949) 261-1920 | Fax: (949) 261-7451

Website: [www.pasternack.com](http://www.pasternack.com) | E-Mail: [sales@pasternack.com](mailto:sales@pasternack.com)



Low Loss Flexible RG142 Type Coax Cable  
Triple Shielded with Tan FEP Jacket

TECHNICAL DATA SHEET

PE-P195

Low Loss Flexible RG142 Type Coax Cable Triple Shielded with Tan FEP Jacket

**Configuration**

Cable Design	Low Loss
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Shield Materials	Silver Plated Copper, Aluminum Tape
Jacket Material and Color	FEP, Tan

**Electrical Specifications**

Impedance, Ohms	50
Capacitance, pF/ft [pF/m]	29 [95.14]
Jacket Spark, Vrms	2,000

**Electrical Specifications by Frequency**

**Frequency 1**

Frequency, MHz	500
Attenuation, dB/100ft [dB/100m]	9 [29.53]

**Frequency 2**

Frequency, MHz	1000
Attenuation, dB/100ft [dB/100m]	12.5 [41.01]

**Frequency 3**

Frequency, GHz	3
Attenuation, dB/100ft [dB/100m]	23.3 [76.44]

**Frequency 4**

Frequency, GHz	5
Attenuation, dB/100ft [dB/100m]	31 [101.71]

**Mechanical Specifications**

**Inner Conductor**

Number of Strands	1
Material	Copper Clad Steel
Plating	Silver
Diameter, in [mm]	0.037 [0.94]

**Dielectric:**

Type	PTFE
Diameter, in [mm]	0.11 [2.79]

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 RG142 Type Coax Cable Triple Shielded with Tan FEP Jacket PE-P195](#)

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Low Loss Flexible RG142 Type Coax Cable  
Triple Shielded with Tan FEP Jacket

TECHNICAL DATA SHEET

PE-P195

**Shield:**

Number of	3
Material 1	Silver Plated Copper
Material 2	Aluminum Tape
Material 3	Silver Plated Copper Braid
Diameter, in [mm]	0.155 [3.94]

**Jacket:**

Material	FEP
Diameter, in [mm]	0.195 [4.95]
Color	Tan
Weight, lbs/ft [Kg/m]	0.002 [0]

**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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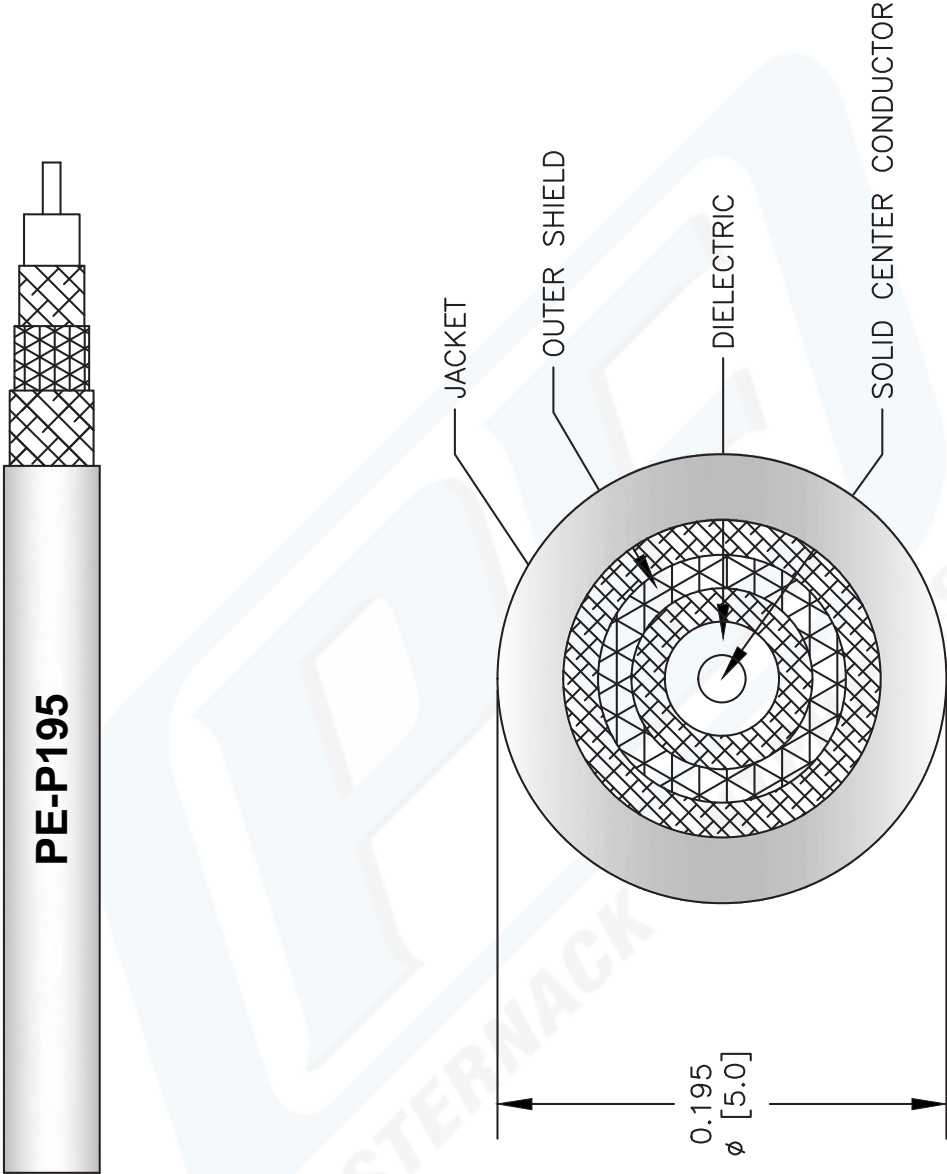
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PE-P195 CAD Drawing

Low Loss Flexible RG142 Type Coax Cable Triple Shielded with Tan FEP Jacket



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DWG TITLE

PE-P195

REV. D

FSCM NO. 53919

CAD FILE 081512-D

SCALE N/A

SIZE A

2233



Pasternack Enterprises, Inc.  
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Phone: (949) 261-1920 | Fax: (949) 261-7451  
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