



## QN Male Right Angle Connector Crimp/Solder Attachment for RG55, RG141, RG142, RG223, RG400, IP68

### RF Connectors Technical Data Sheet

PE44600

#### Configuration

- QN Male Connector
- 50 Ohms
- Right Angle Body Geometry
- RG55, RG141, RG142, RG223, RG400 Interface Type
- Crimp/Solder Attachment

#### Features

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

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE44600 QN male right angle connector with crimp/solder attachment for RG55, RG141, RG142, RG223 and RG400 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 PE44600 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 RG55, RG141, RG142, RG223, RG400, IP68 PE44600](#)


**QN Male Right Angle Connector Crimp/Solder Attachment  
for RG55, RG141, RG142, RG223, RG400, IP68**
**RF Connectors Technical Data Sheet**
**PE44600**
**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.

0.745 in [18.92 mm]

**Weight**

0.057 lbs [25.85 g]

**Mating Cycles**

100 Cycles

**Material Specifications**

Description	Material	Plating
Contact	Brass	Gold
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 RG55, RG141, RG142, RG223, RG400, IP68

### RF Connectors Technical Data Sheet

PE44600

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

#### Plotted and Other Data

Notes:

QN Male Right Angle Connector Crimp/Solder Attachment for RG55, RG141, RG142, RG223, RG400, 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.

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 RG55, RG141, RG142, RG223, RG400, IP68 PE44600](#)

URL: <https://www.pasternack.com/qn-male-standard-rg55-rg142-rg223-rg400-connector-pe44600-p.aspx>

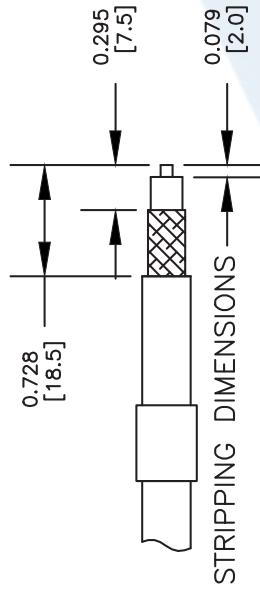
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such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

# PE44600 CAD Drawing

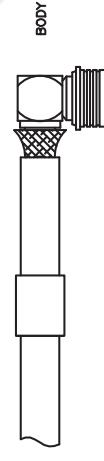
QN Male Right Angle Connector Crimp/Solder Attachment  
for RG55, RG141, RG142, RG223, RG400, IP68

## ASSEMBLY PROCEDURES

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



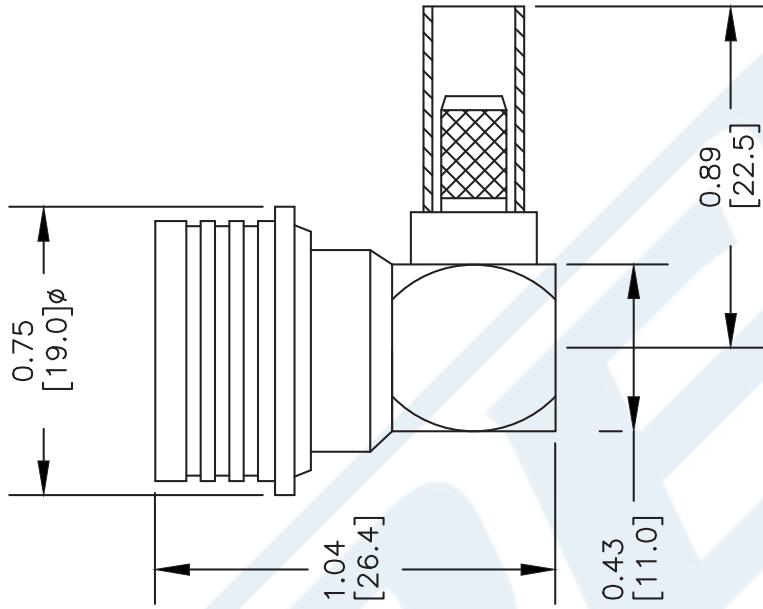
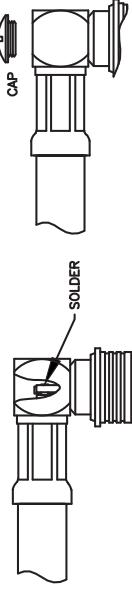
2. FLAIR BRAID AND INSERT THE STRIPPED CABLE INTO BODY AND POSITION THE CENTER CONDUCTOR IN THE SLOT OF THE CENTER PIN.



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.



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.

DWG TITLE	PE44600	NOTES:
PASTERNACK® Pasternack Enterprises, Inc. P.O. Box 16759   Irvine   CA   92623 Phone: (949) 261-1920   Fax: (949) 261-7451 Website: <a href="http://www.pasternack.com">www.pasternack.com</a>   E-Mail: <a href="mailto:sales@pasternack.com">sales@pasternack.com</a>	FSCM NO. 53919	CAD FILE 061608 SCALE N/A SIZE A XXXX



## QN Male Connector Crimp/Solder Attachment for RG55, RG141, RG142, RG223, RG400

### RF Connectors Technical Data Sheet

PE44978

#### Configuration

- QN Male Connector
- 50 Ohms
- Straight Body Geometry
- RG55, RG141, RG142, RG223, RG400 Interface Type
- Crimp/Solder Attachment

#### Features

- Max. Operating Frequency 6 GHz
- Excellent VSWR of 1.2:1
- Silver Plated Brass Contact

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE44978 QN male connector with crimp/solder attachment for RG55, RG141, RG142, RG223 and RG400 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 6 GHz and offers excellent VSWR of 1.2:1.

Our QN male connector PE44978 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			1.2:1	
Insertion Loss		0.12		dB
Operating Voltage (AC)		850		Vrms
Dielectric Withstanding Voltage (AC)		1,500		Vrms
Insulation Resistance	5,000			MOhms

Electrical Specification Notes:

Insertion loss =  $0.048 \times \sqrt{f\text{GHz}}$  dB max.

#### Mechanical Specifications

##### Size

Length

1.38 in [35.05 mm]

Width/Dia.

0.75 in [19.05 mm]

Weight

0.038 lbs [17.24 g]

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 RG55, RG141, RG142, RG223, RG400 PE44978](#)



## QN Male Connector Crimp/Solder Attachment for RG55, RG141, RG142, RG223, RG400

### RF Connectors Technical Data Sheet

PE44978

Mating Cycles 100 Cycles

#### Material Specifications

Description	Material	Plating
Contact	Brass	Silver
Insulation	PTFE	
Outer Conductor	Beryllium Copper	Nickel
Body	Brass	Silver

#### Environmental Specifications

##### Temperature

Operating Range

-55 to +125 deg C

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

#### Plotted and Other Data

Notes:

QN Male Connector Crimp/Solder Attachment for RG55, RG141, RG142, RG223, RG400 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-rg55-rg142-rg223-rg400-connector-pe44978-p.aspx>

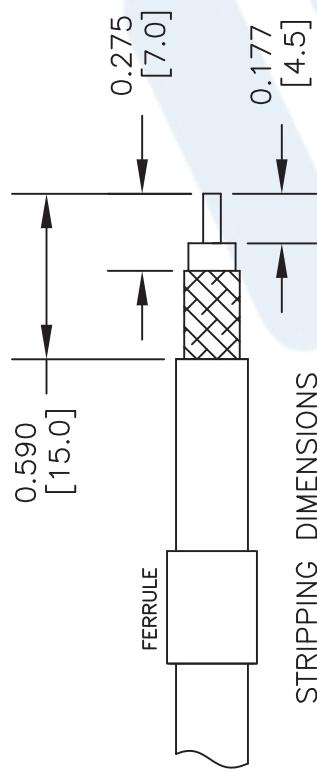
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# PE44978 CAD Drawing

QN Male Connector Crimp/Solder Attachment for RG55, RG141, RG142, RG223, RG400

## ASSEMBLY PROCEDURES

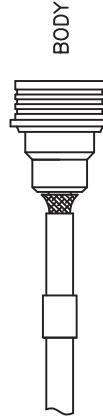
1. STRIP CABLE AS SHOWN. SLIDE FERRULE OVER CABLE.



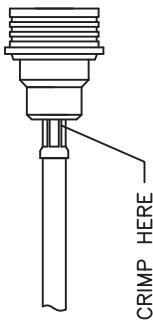
2. INSERT DIELECTRIC INTO CONTACT AND CRIMP IT WITH .100" HEX CRIMP TOOL. SPLAY OUT THE BRAID.



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	PE44978
CAGE CODE	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.
CAGE CODE	CAD FILE 101016 SCALE N/A SIZE A 2233

## 53 Ohm Flexible RG55 Coax Cable Double Shielded with Black PE Jacket

### TECHNICAL DATA SHEET

### RG55B/U

#### 53 Ohm Flexible RG55 Coax Cable Double Shielded with Black PE Jacket

##### Configuration

Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PE
Shield Materials	Tinned Copper Braid, Tinned Copper Braid
Jacket Material and Color	PE, Black

##### Electrical Specifications

Impedance, Ohms	53
Velocity of Propagation, %	66
Maximum Operating Frequency, GHz	3
Capacitance, pF/ft [pF/m]	28.8 [94.49]

##### Electrical Specifications by Frequency

###### Frequency 1

Frequency, MHz	10
Attenuation, dB/100ft [dB/100m]	1.35 [4.43]

###### Frequency 2

Frequency, MHz	100
Attenuation, dB/100ft [dB/100m]	4.3 [14.11]

###### Frequency 3

Frequency, MHz	1000
Attenuation, dB/100ft [dB/100m]	16.5 [54.13]

###### Frequency 4

Frequency, GHz	3
Attenuation, dB/100ft [dB/100m]	32 [104.99]

##### Mechanical Specifications

###### Inner Conductor

Number of Strands	1
Material	Copper
Plating	Silver
Diameter, in [mm]	0.032 [0.81]

###### Dielectric:

Type	PE
Diameter, in [mm]	0.116 [2.95]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [53 Ohm Flexible RG55 Coax Cable Double Shielded with Black PE Jacket RG55B/U](#)

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## 53 Ohm Flexible RG55 Coax Cable Double Shielded with Black PE Jacket

### TECHNICAL DATA SHEET

RG55B/U

**Shield:**

Number of	2
Material 1	Tinned Copper Braid
Material 2	Tinned Copper Braid

**Jacket:**

Material	PE
Diameter, in [mm]	0.202 [5.13]
Color	Black
Weight, lbs/ft [Kg/m]	0.035 [0.05]

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

**Plotted and Other Data**

Notes: Values at 25 °C, sea level

53 Ohm Flexible RG55 Coax Cable Double Shielded with Black PE Jacket 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.

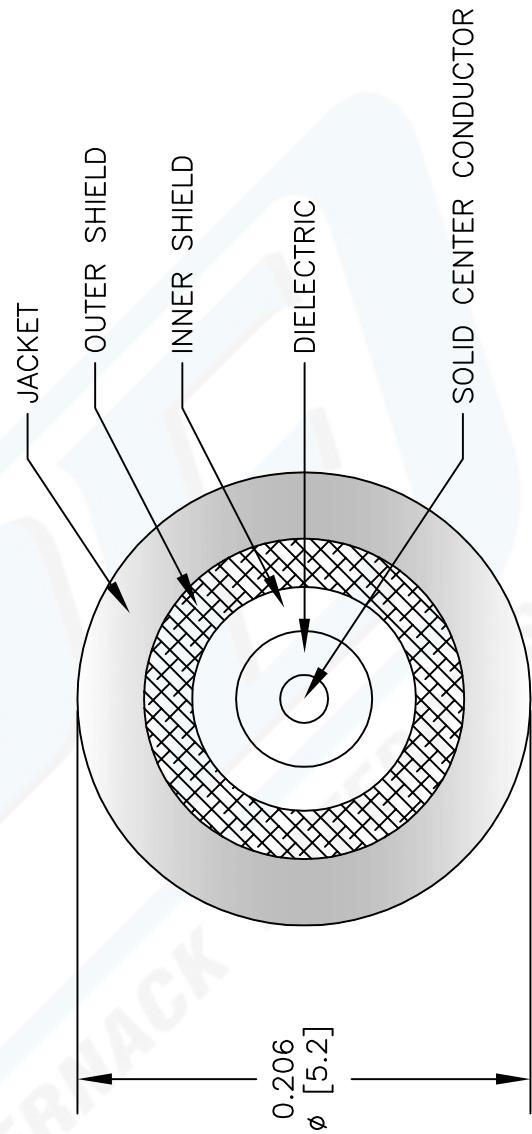
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [53 Ohm Flexible RG55 Coax Cable Double Shielded with Black PE Jacket RG55B/U](#)

URL: <http://www.pasternack.com/flexible-0.206-rg55-53.5-ohm-coax-cable-pe-jacket-rg55b-u-p.aspx>

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# RG55B/U CAD Drawing

53 Ohm Flexible RG55 Coax Cable Double Shielded with Black PE Jacket



**PE PASTERNACK®**

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DWG TITLE	REV. A	FSCM NO.	CAD FILE	SCALE	SIZE	A
<b>RG55B/U</b>		53919	040113-A	N/A	N/A	147

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