

QN Female Bulkhead Mount Connector Crimp/ Solder Attachment for RG55, RG141, RG142, RG223, RG400, .500 inch Diameter, IP68



RF Connectors Technical Data Sheet

PE44605

Configuration

- QN Female Connector
- 50 Ohms
- Straight Body Geometry
- RG55, RG141, RG142, RG223, RG400 Interface

- Crimp/Solder Attachment
- Bulkhead

Features

- Max. Operating Frequency 11 GHz
- Gold over Nickel Plated Spring Bronze Contact
- 0.15 µm minimum contact plating
- IP68 0.3 bar (interface only)

Applications

General Purpose Test

Rack and Panel Mount Applications

Custom Cable Assemblies

Description

Pasternack's PE44605 QN female bulkhead connector with crimp/solder attachment for RG55, RG141, RG142, RG223 and RG400 (.500 inch diameter) is part of our full line of RF components available for same-day shipping. Our QN female connector operates up to a maximum frequency of 11 GHz. This QN bulkhead connector allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. The connector has an IP68 rating to protect against dust and prolonged moisture protection under immersion conditions.

Our QN female bulkhead connector PE44605 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 6				GHz
VSWR, Max	1.12:1	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 Female Bulkhead Mount Connector Crimp/Solder Attachment for RG55, RG141, RG142, RG223, RG400, .500 inch Diameter, IP68 PE44605

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

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PE44605 REV 1.1



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Electrical Specification Notes: RF leakage: 90 dB (up to 3 GHz) min. Insertion loss = 0.05 x sqrt(fGHz) dB max.

Mechanical Specifications

Size

 Length
 1.665 in [42.29 mm]

 Width/Dia.
 0.67 in [17.02 mm]

 Weight
 0.096 lbs [43.54 g]

 Mating Cycles
 100 Cycles

Material Specifications

Description	Material	Plating
Contact	Spring Bronze	Gold over Nickel 0.15 µm minimum
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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RF Connectors Technical Data Sheet

PE44605

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

QN Female Bulkhead Mount Connector Crimp/Solder Attachment for RG55, RG141, RG142, RG223, RG400, .500 inch Diameter, 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 Female Bulkhead Mount Connector Crimp/Solder Attachment for RG55, RG141, RG142, RG223, RG400, .500 inch Diameter, IP68 PE44605

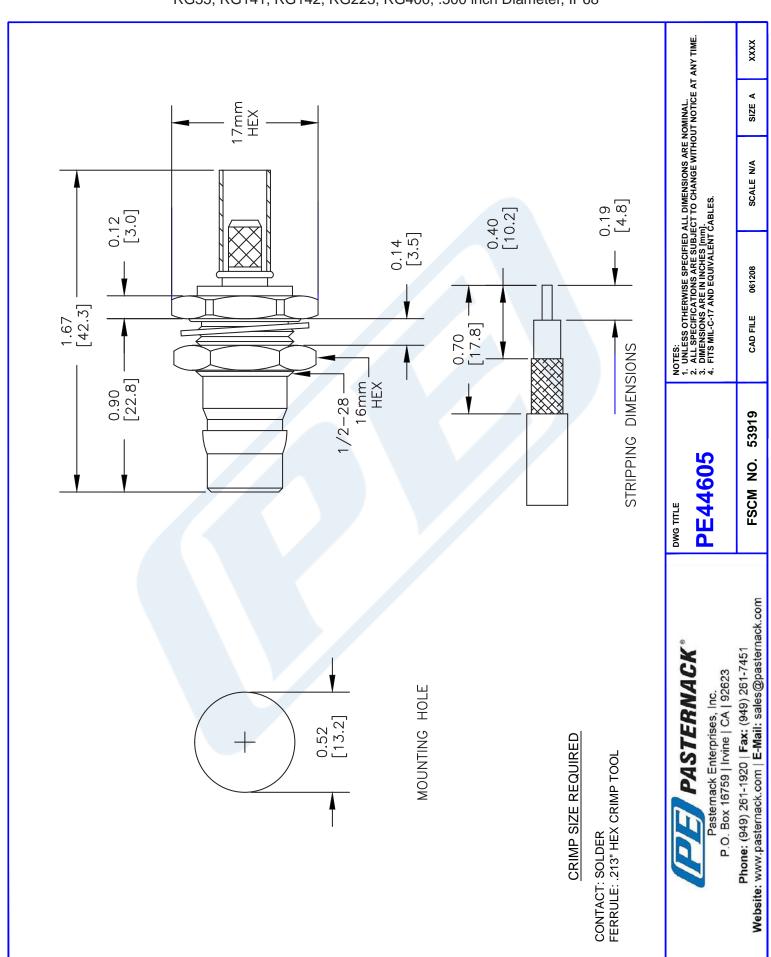
URL: https://www.pasternack.com/qn-female-standard-rg55-rg142-rg223-rg400-connector-pe44605-p.aspx

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.

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* PE44605 CAD Drawing

QN Female Bulkhead Mount Connector Crimp/Solder Attachment for RG55, RG141, RG142, RG223, RG400, .500 inch Diameter, IP68





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

Minimum	Typical	Maximum	Units
DC		6	GHz
		1.2:1	
		0.12	dB
		850	Vrms
		1,500	Vrms
5,000			MOhms
	DC	DC	DC 6 1.2:1 0.12 850 1,500

Electrical Specification Notes:

Insertion loss = $0.048 \times \text{sqrt}(\text{fGHz}) \text{ dB max}$.

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

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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:

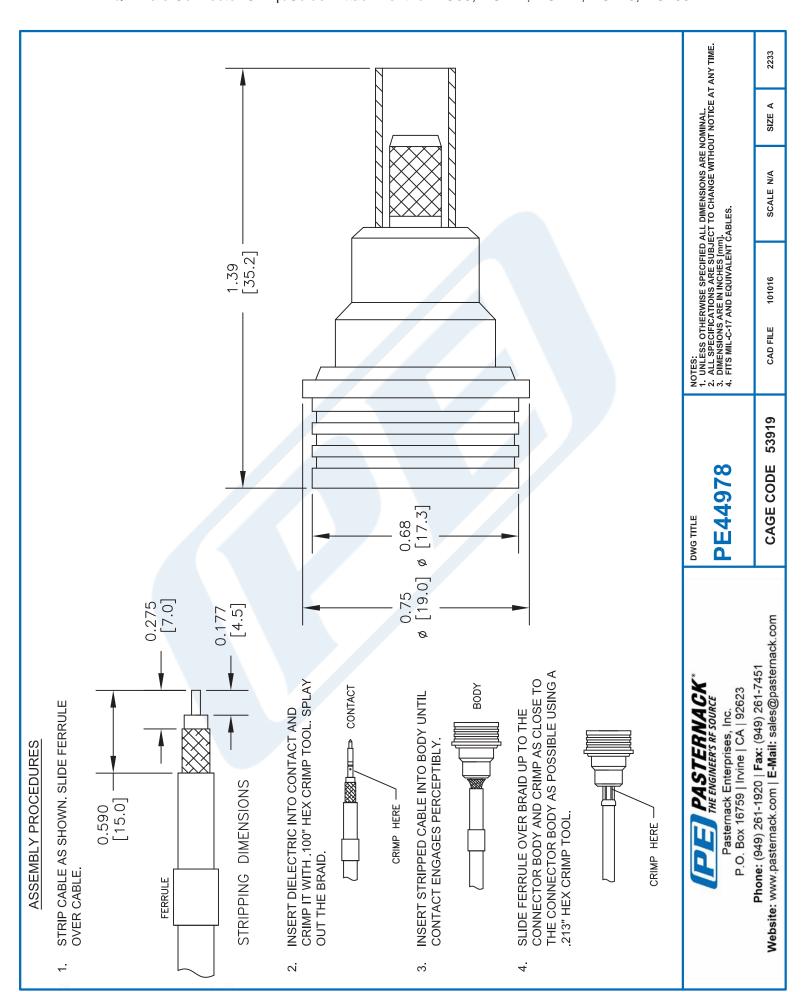
QN Male Connector Crimp/Solder Attachment for RG55, RG141, RG142, RG223, RG400 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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

URL: https://www.pasternack.com/qn-male-standard-rg55-rg142-rg223-rg400-connector-pe44978-p.aspx

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Flexible RG223 Coax Cable Double Shielded with Black PVC Jacket

TECHNICAL DATA SHEET

RG223/U

Configuration

Inner Conductor Material and Plating Copper, Silver

Dielectric Type PE

Shield Materials Silver Plated Copper Braid, Silver Plated Copper Braid

Jacket Material and Color PVC, Black

Electrical Specifications

Impedance, Ohms 50
Velocity of Propagation, % 66
Maximum Operating Frequency, GHz 12.4

Capacitance, pF/ft [pF/m] 30.8 [101.05]

Maximum Operating Voltage, Volts 1,900

Electrical Specifications by Frequency

Frequency 1

Frequency, MHz 100 Attenuation, dB/100ft [dB/100m] 4 [13.12]

Frequency 2

Frequency, MHz 400 Attenuation, dB/100ft [dB/100m] 8.2 [26.9]

Frequency 3

Frequency, MHz 1000 Attenuation, dB/100ft [dB/100m] 13.4 [43.96]

Frequency 4

Frequency, GHz

Attenuation, dB/100ft [dB/100m] 24.8 [81.36]

Frequency 5

Frequency, GHz

Attenuation, dB/100ft [dB/100m] 33.5 [109.91]

Frequency 6

Frequency, GHz 1

Attenuation, dB/100ft [dB/100m] 54.1 [177.49]

Mechanical Specifications

Temperature

Operating Range, deg C -20 to +80

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Flexible RG223 Coax Cable Double Shielded with Black PVC Jacket RG223/U

RG223/U REV





Flexible RG223 Coax Cable Double Shielded with Black PVC Jacket

TECHNICAL DATA SHEET

RG223/U

Inner Conductor

Number of Strands

Material Copper
Plating Silver
Diameter, in [mm] 0.035 [0.89]

Dielectric:

Type PE

Diameter, in [mm] 0.116 [2.95]

Shield:

Number of

Material 1 Silver Plated Copper Braid Material 2 Silver Plated Copper Braid Silver Plated Copper Braid

Diameter, in [mm] 0.156 [3.96]

Jacket:

 Material
 PVC

 Diameter, in [mm]
 0.21 [5.33]

 Color
 Black

 One Time Minimum Bend Radius, in [mm]
 0.21 [5.33]

 Repeated Minimum Bend Radius, in [mm]
 1 [25.4]

 Weight, lbs/ft [Kg/m]
 0.038 [0.06]

Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant

REACH Compliant 06/18/2012

Plotted and Other Data

Notes:

Values at +25 °C, sea level

Flexible RG223 Coax Cable Double Shielded with Black PVC Jacket 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: Flexible RG223 Coax Cable Double Shielded with Black PVC Jacket RG223/U

URL: http://www.pasternack.com/flexible-0.216-rg223-50-ohm-coax-cable-pvc-jacket-rg223-u-p.aspx

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RG223/U CAD Drawing
Flexible RG223 Coax Cable Double Shielded with Black PVC Jacket

