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QN Male Connector Crimp/Solder Attachment For RG213, RG215

RF Connectors
Technical Data Sheet

PE44597

Configuration

- QN Male Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: RG213, RG215

Features

- Max. Operating Frequency 11 GHz
- Gold Plated Brass Contact

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE44597 QN male connector with crimp/solder attachment for RG213 and RG215 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.

Our QN male connector PE44597 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
Dielectric Withstanding Voltage (AC)			2,500	Vrms

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	1:1					
Return Loss, Max	27	25	20			dB
Insertion Loss, Max	0.08	0.1	0.12			dB
Input Power (CW), Max	300					Watts

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 RG213, RG215 PE44597

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QN Male Connector Crimp/Solder Attachment For RG213, RG215

RF Connectors
Technical Data Sheet

PE44597

Mechanical Specifications

Size

Length	1.73 in [43.94 mm]
Width/Dia.	0.75 in [19.05 mm]
Weight	0.068 lbs [30.84 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

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

QN Male Connector Crimp/Solder Attachment For RG213, RG215 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.

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 RG213, RG215 PE44597

URL: https://www.pasternack.com/qn-male-standard-rg213-rg215-connector-pe44597-p.aspx

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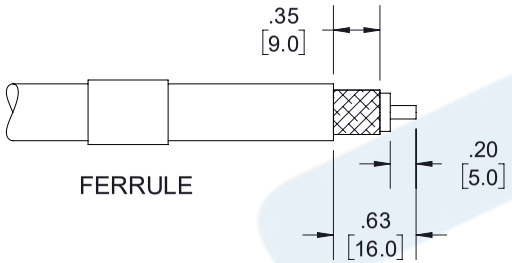
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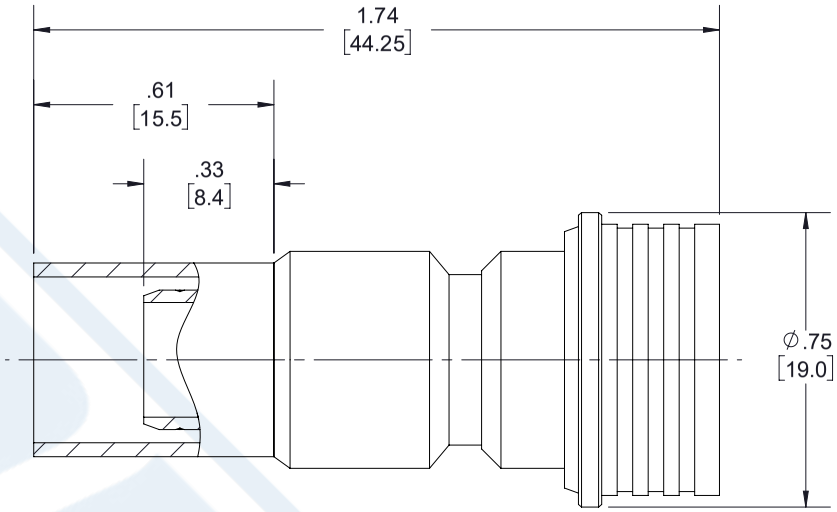
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	PCR PE44597 20200812	10/12/2020	SRAUTUS

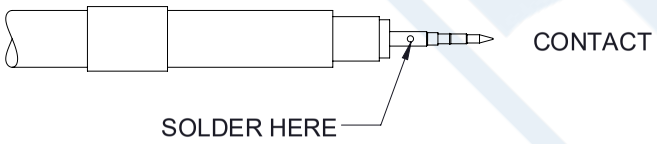
ASSEMBLY PROCEDURES

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

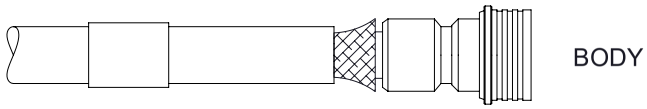




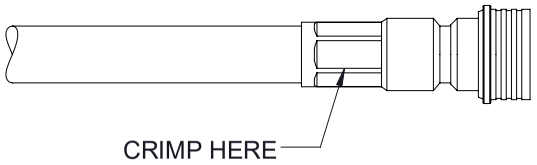
2. INSERT CENTER CONDUCTOR TO CONTACT AND SOLDER IT.



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 .429" HEX CRIMP TOOL.



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UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

.X = ± .2 [5.08]	FRACTIONS
.XX = ± .02 [.51]	± 1/32
.XXX = ± .005 [.13]	ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5%L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	SLI	PE44597	A

PE44597 CAD Drawing

QN Male Connector Crimp/Solder Attachment For RG213, RG215

QN Plug Right Angle Connector Crimp/Solder Attachment for RG214, RG225, RG393, RG9



PE51262

Configuration

- QN Plug Connector
- 50 Ohms
- Right Angle Body Geometry
- Connector Interface Types: RG214, RG225, RG393, RG9

Features

- Max. Operating Frequency 3 GHz
- Excellent VSWR of 1.2:1
- Gold Plated Brass Contact
- 4 µin Minimum contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE51262 Right Angle, QN, Standard, Connector is part of our full line of RF components available for same-day shipping. Our QN plug connector operates up to a maximum frequency of 3 GHz and offers excellent VSWR of 1.2:1. Its right angle body geometry allows for easier connections in tight spaces.

Our QN plug right angle connector PE51262 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		3	GHz
VSWR			1.2:1	
Operating Voltage (AC)			1,000	Vrms
Dielectric Withstanding Voltage (AC)			2,500	Vrms
Inner Conductor DC Resistance			1.5	mOhms
Outer Conductor DC Resistance			1.5	mOhms
Insulation Resistance	5,000			MOhms
Impedance		50		Ohms

Electrical Specification Notes:
Insertion loss is < = 0.05*SQRT(F(GHz) dB

Mechanical Specifications

Size

Length	1.185039 in [30.1 mm]
Width	0.744094 in [18.9 mm]
Height	1.066929 in [27.1 mm]
Weight	0.11023 lbs [50 g]
Mating Cycles	100 Cycles
Cable Retention Force	101 lbs [45.81 kg]
Engagement Force	6.75lbs [3.06kg]
Disengagement Force	6.75lbs [3.06kg]

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QN Plug Right Angle Connector Crimp/Solder Attachment for RG214, RG225, RG393, RG9



PE51262

Material Specifications

Description	Material	Plating
Contact	Brass	Gold 4 µin Minimum
Insulation	PTFE	
Body	Brass	Copper-Tin-Zinc Alloy 100 µin Minimum
Coupling Nut	Brass	Copper-Tin-Zinc Alloy 100 µin Minimum
Gasket	Silicone	
Crimp Sleeve	Copper	Gold 4 µin Minimum
Washer	Beryllium Copper	Gold 4 µin Minimum

Environmental Specifications

Temperature

Operating Range	-40 to +125 deg C
Thermal Shock	MIL-STD-202, Method 213, Condition 1

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

QN Plug Right Angle Connector Crimp/Solder Attachment for RG214, RG225, RG393, RG9 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: QN Plug Right Angle Connector Crimp/Solder Attachment for RG214, RG225, RG393, RG9 PE51262

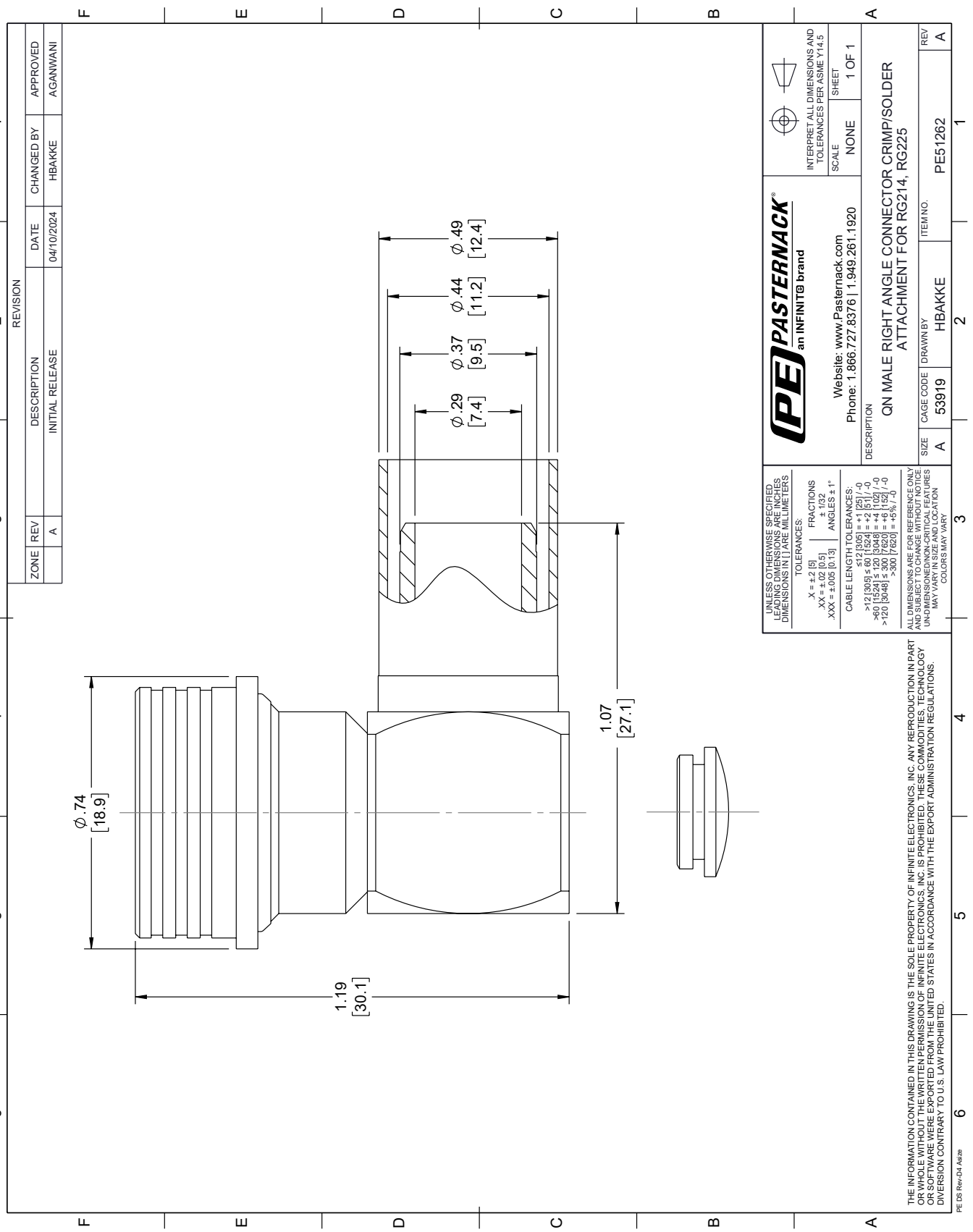
URL: https://www.pasternack.com/qn-plug-rg214-rg225-rg393-rg9-connector-pe51262-p.aspx

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PE51262 CAD Drawing

QN Plug Right Angle Connector Crimp/Solder Attachment for RG214, RG225, RG393, RG9



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Flexible RG8 Coax Cable Single Shielded with Black PVC (NC) Jacket

RF Cables
Technical Data Sheet

RG8A/U

Times Microwave Systems Coax Cable Specification

Configuration

- Flexible Cable
- 1 Shield(s)

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
Impedance		50		Ohms
Velocity of Propagation		66		%
Nominal Capacitance		30.8 [101.05]		pF/ft [pF/m]

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	1	10	50	400	700	MHz
Attenuation, Typ	0.2	0.6	1.3	4.1	6.5	dB/100ft
	0.66	1.97	4.27	13.45	21.33	dB/100m

Description	F6	F7	F8	F9	F10	Units
Frequency	900	1,000				MHz
Attenuation, Typ	7.6	8				dB/100ft
	24.93	26.25				dB/100m

Mechanical Specifications

Diameter	0.405 in [10.29 mm]
Weight	0.105 lbs/ft [0.16 Kg/m]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, 7 Strands	0.085 in [2.16 mm]

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: Flexible RG8 Coax Cable Single Shielded with Black PVC (NC) Jacket RG8A/U

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Flexible RG8 Coax Cable Single Shielded with Black PVC (NC) Jacket

RF Cables
Technical Data Sheet

RG8A/U

Conductor Type	Stranded	
Dielectric	PE	0.285 in [7.24 mm]
First Shield	Copper Braid	0.318 in [8.08 mm]
Jacket	PVC (NC), Black	0.405 in [10.29 mm]

Environmental Specifications

Temperature

Operating Range -40 to +80 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Flexible RG8 Coax Cable Single Shielded with Black PVC (NC) 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.

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: Flexible RG8 Coax Cable Single Shielded with Black PVC (NC) Jacket RG8A/U

URL: https://www.pasternack.com/flexible-0.405-rg8-52-ohm-coax-cable-pvc-jacket-rg8a-u-p.aspx

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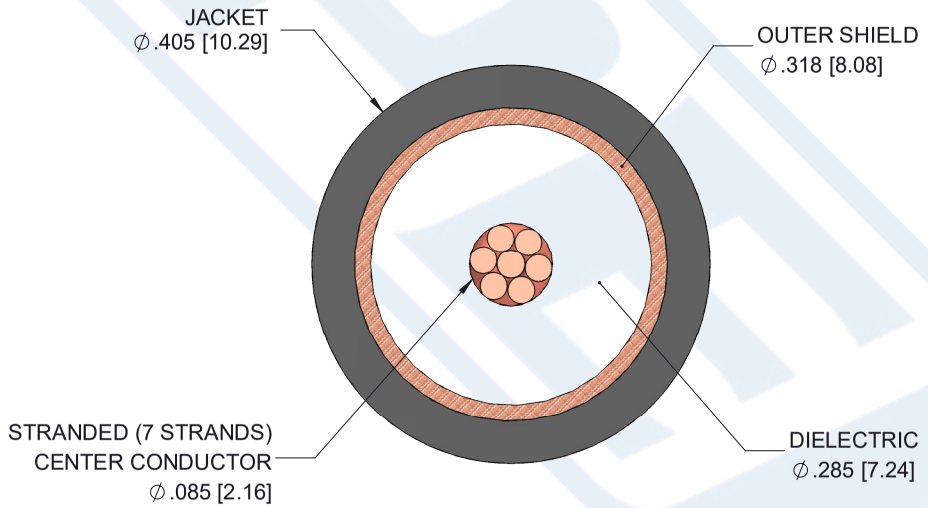
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RG8A/U CAD Drawing

Flexible RG8 Coax Cable Single Shielded with Black PVC (NC) Jacket





SECTION VIEW

STANDARD TOLERANCES	
.X	±0.2
.XX	±0.01
.XXX	±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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DWG TITLE

RG8A/U

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].

CAGE CODE 53919	CAD FILE 12/21/18	SCALE N/A	SIZE A	7361