



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

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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>

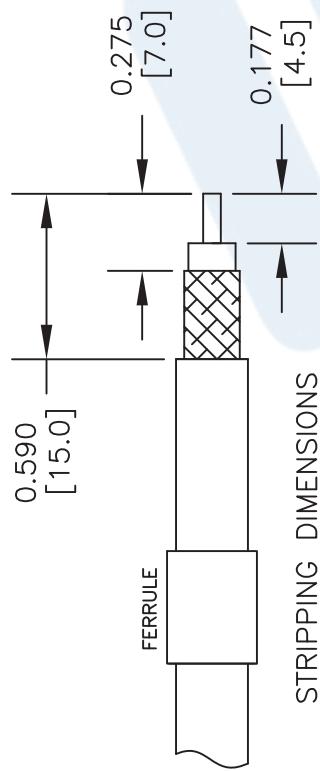
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such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

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.



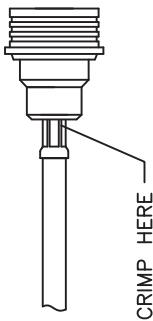
2. INSERT DIELECTRIC INTO CONTACT AND CRIMP IT WITH .100" HEX CRIMP TOOL. SPLAY OUT THE BRAID.



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.

SIZE A	2233
CAD FILE	101016
SCALE	N/A



N Female Connector Crimp/Solder Attachment For RG223, RG142, RG400, RG55, White Bronze

TECHNICAL DATA SHEET

PE44789

Configuration

Connector: N Female
 Connector Interface Type: RG223, RG142, RG400, RG55
 Cable Attachment Method (Shield/Contact): Crimp/Solder
 Body Style: Straight

Electrical Specifications

Impedance, Ohms: 50

Mechanical Specifications

Size

Length, in [mm]: 1.45 [36.83]
 Width/Dia., in [mm]: 0.67 [17.02]
 Weight, lbs [g]: 0.11 [49.9]

Connector

Type: N Female
 Contact Material and Plating: Phosphor Bronze, Gold
 Body Material and Plating: Brass, Nexcote
 Dielectric Type: Teflon

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

RoHS Compliant: Yes

Plotted and Other Data

Notes: Values at 25 °C, sea level

N Female Connector Crimp/Solder Attachment For RG223, RG142, RG400, RG55, White Bronze 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.

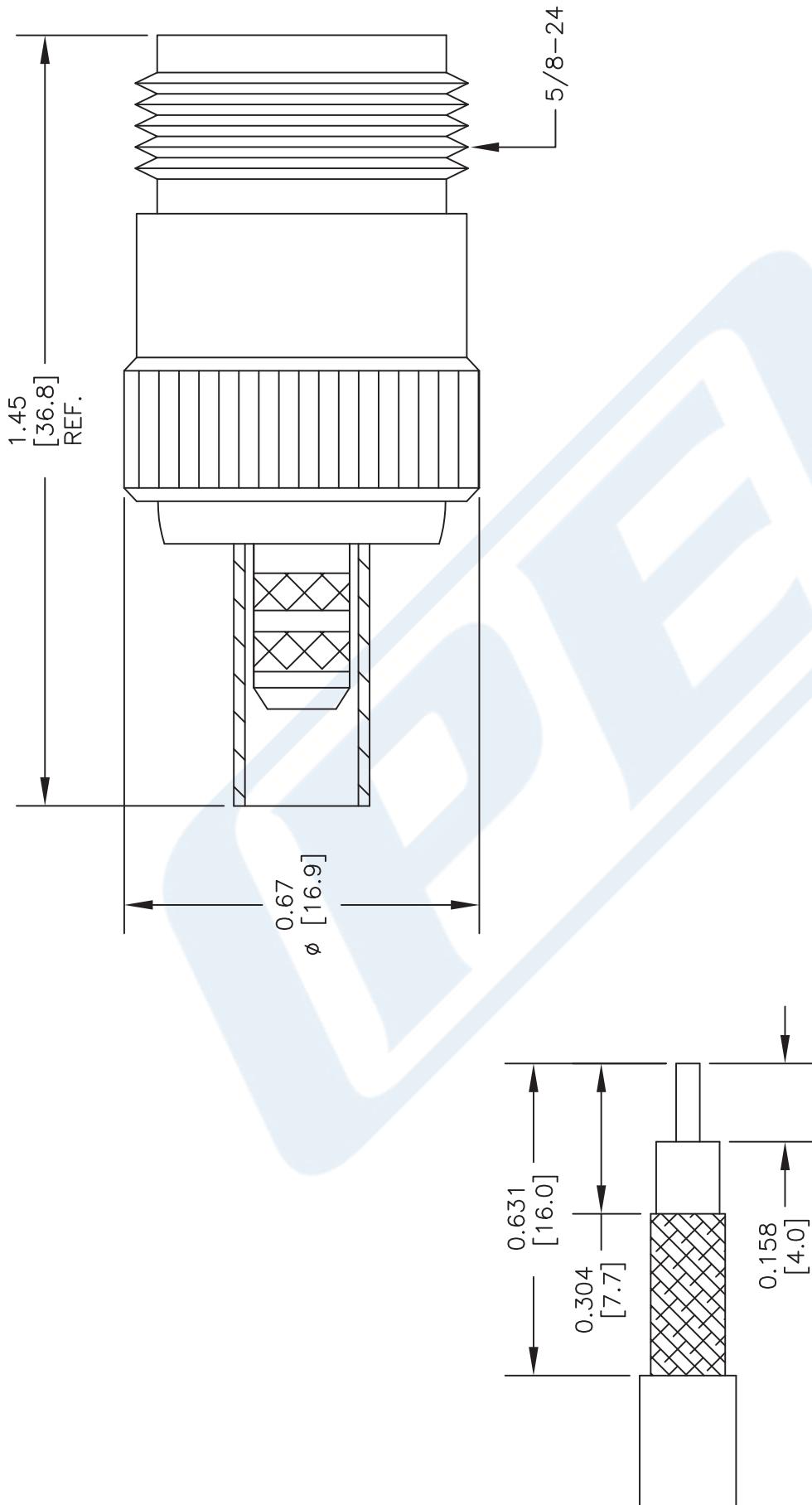
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Female Connector Crimp/Solder Attachment For RG223, RG142, RG400, RG55, White Bronze PE44789](http://www.pasternack.com/n-female-standard-rg223-rg142-rg400-rg55-connector-pe44789-p.aspx)

URL: <http://www.pasternack.com/n-female-standard-rg223-rg142-rg400-rg55-connector-pe44789-p.aspx>

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PE44789 CAD Drawing

N Female Connector Crimp/Solder Attachment For RG223,
RG142, RG400, RG55, White Bronze



STRIPPING DIMENSIONS

CRIMP SIZE REQUIRED

CONTACT: SOLDER
FERRULE: .213" HEX CRIMP TOOL



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Flexible RG142 Coax Cable Double Shielded with Tan FEP Jacket

RF Cables Technical Data Sheet

RG142B/U

Configuration

- Flexible Cable
- 2 Shield(s)

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
Impedance		50		Ohms
Velocity of Propagation		70		%
Shielding Effectiveness	70			dB
Operating Voltage (AC)			1,900	Vrms
Dielectric Withstanding Voltage (DC)			5,000	Vdc
Inner Conductor DC Resistance		65		Ohms/1000ft
Outer Conductor DC Resistance		9		Ohms/1000ft
Nominal Capacitance		96.45 [316.44]		pF/ft [pF/m]
Insulation Resistance	5,000			MOhms/1000ft
Power@ 1GHz			395	Watts

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.4	1	3	5	GHz
Attenuation, Typ	3.9	7.9	12.9	23.9	32.1	dB/100ft
	12.8	25.92	42.32	78.41	105.31	dB/100m
Description	F6	F7	F8	F9	F10	Units
Frequency	6	8				GHz
Attenuation, Typ	36.86	44.17				dB/100ft
	120.93	144.91				dB/100m

Mechanical Specifications

Diameter	0.195 in [4.95 mm]
Weight	0.042 lbs/ft [0.06 kg/m]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG142 Coax Cable Double Shielded with Tan FEP Jacket RG142B/U](#)



Flexible RG142 Coax Cable Double Shielded with Tan FEP Jacket

RF Cables Technical Data Sheet

RG142B/U

Min. Bend Radius (Installation)	0.98 in [24.89 mm]
Min. Bend Radius (Repeated)	1.97 in [50.04 mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver, 1 Strand	0.037 in [0.94 mm]
Conductor Type	Solid	
Dielectric	PTFE	0.116 in [2.95 mm]
First Shield	Silver Plated Copper Braid	[]
Second Shield	Silver Plated Copper Braid	0.156 in [3.96 mm]
Jacket	FEP, Tan	0.195 in [4.95 mm]

Environmental Specifications

Temperature

Operating Range	-55 to +200 deg C
Installation Range	-20 to +50 deg C
Storage Range	0 to +40 deg C

Humidity

0 - 80% Relative Humidity

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

Plotted and Other Data

Notes:

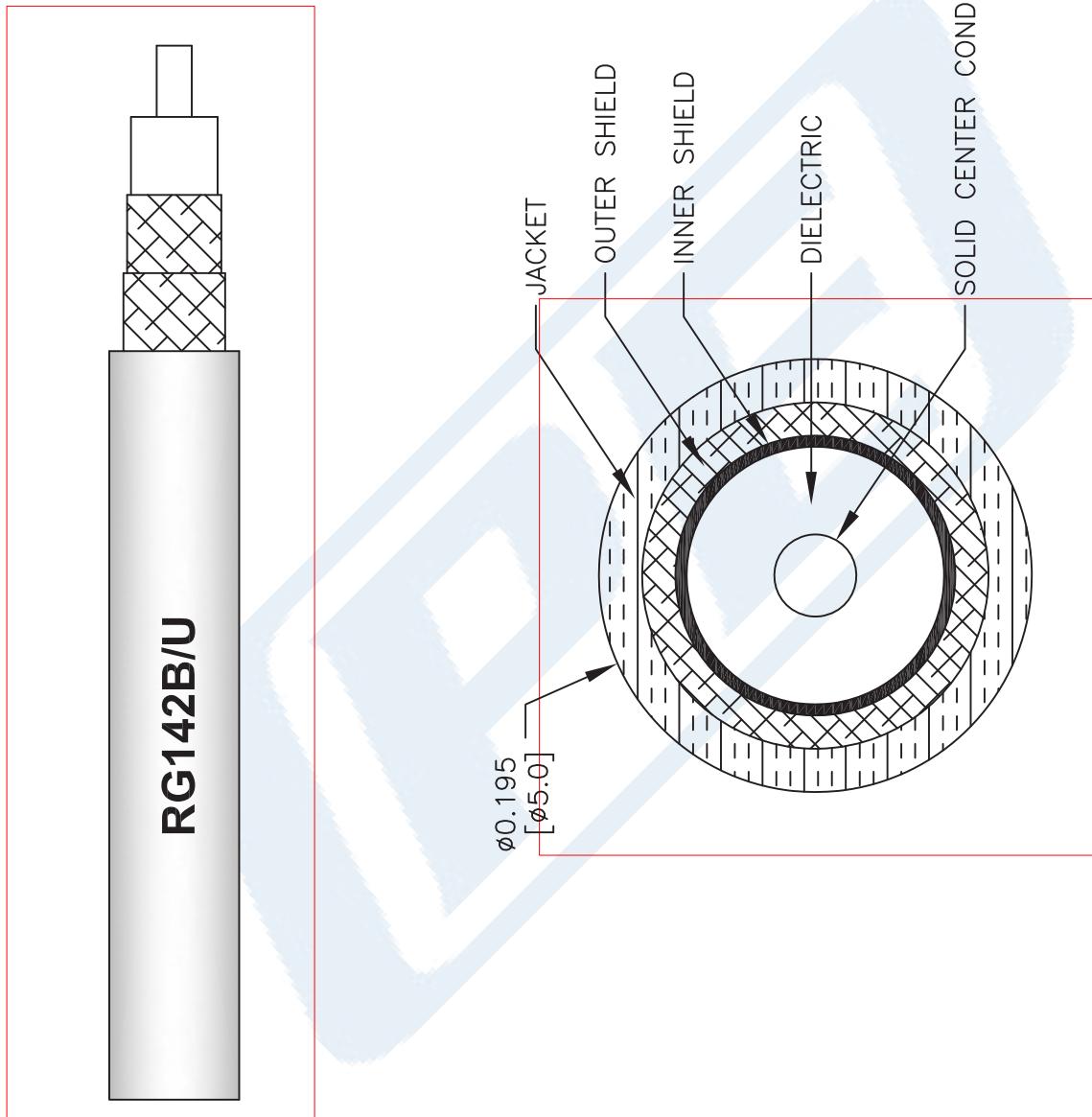
Flexible RG142 Coax Cable Double Shielded with Tan FEP Jacket from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG142 Coax Cable Double Shielded with Tan FEP Jacket RG142B/U](#)

URL: <https://www.pasternack.com/flexible-0.195-rg142-50-ohm-coax-cable-fep-jacket-rg142b-u-p.aspx>

RG142B/U CAD Drawing

Flexible RG142 Coax Cable Double Shielded with Tan FEP Jacket



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DWG TITLE
RG142B/U

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