SMA Female Connector Crimp/Solder Attachment for RG58

RF Connectors
Technical Data Sheet

PE4413

Configuration

- SMA Female Connector
- 50 Ohms
- Straight Body Geometry
- RG58 Interface Type
- Crimp/Solder Attachment

Features

- Max. Operating Frequency 12.4 GHz
- Good VSWR of 1.28:1
- Gold Plated Beryllium Copper Contact
- 50μ in. minimum contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4413 SMA female connector with crimp/solder attachment for RG58 is part of our full line of RF components available for same-day shipping. Our SMA female connector operates up to a maximum frequency of 12.4 GHz and offers good VSWR of 1.28:1.

Our SMA female connector PE4413 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		12.4	GHz
VSWR			1.28:1	
Operating Voltage (AC)			500	Vrms

Mechanical Specifications

Size
Length   0.893 in [22.68 mm]
Width/Dia.   0.25 in [6.35 mm]
Weight   0.008 lbs [3.63 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Female Connector Crimp/Solder Attachment for RG58 PE4413

RF Connectors
Technical Data Sheet
PE4413

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold 50μ in. minimum
Insulation	PTFE	
Body	Brass	Nickel 100μ in. minimum

Environmental Specifications
Temperature
Operating Range   -65 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data
Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Female Connector Crimp/Solder Attachment for RG58 PE4413
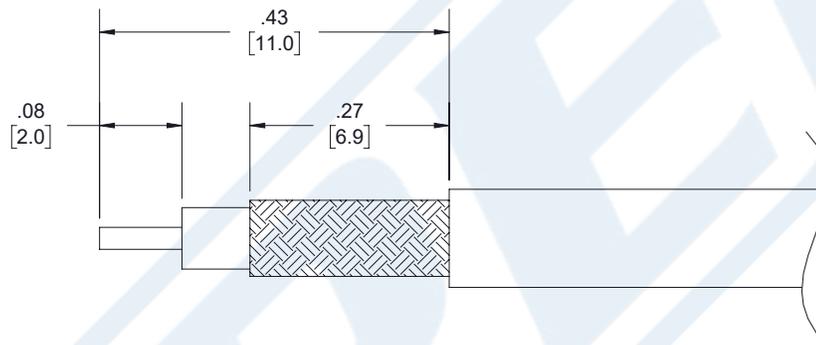
SMA Female Connector Crimp/Solder Attachment for RG58

RF Connectors
Technical Data Sheet

PE4413

Assembly Instruction

.43
[11.0]

.08
[2.0]

.27
[6.9]

ASSEMBLY PROCEDURES

1. STRIP CABLE TO THE DIMENSIONS SHOWN, DO NOT NICK CENTER CONDUCTOR OR BRAID.
2. PUSH CENTER CONDUCTOR FULLY INTO CONTACT AND SOLDER, REMOVE ANY EXCESS SOLDER.
3. FLARE BRAID AND INSERT CONTACT INTO THE BODY UNTIL IT SEATS.
4. SLIDE FERRULE OVER BRAID AND CRIMP WITH CRIMP TOOL.

CRIMP SIZE REQUIRED

- CONTACT: SOLDER.
- FERRULE: .213" HEX CRIMP TOOL.

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PE4413 REV 2.1

SMA Female Connector Crimp/Solder Attachment for RG58

RF Connectors
Technical Data Sheet   PE4413

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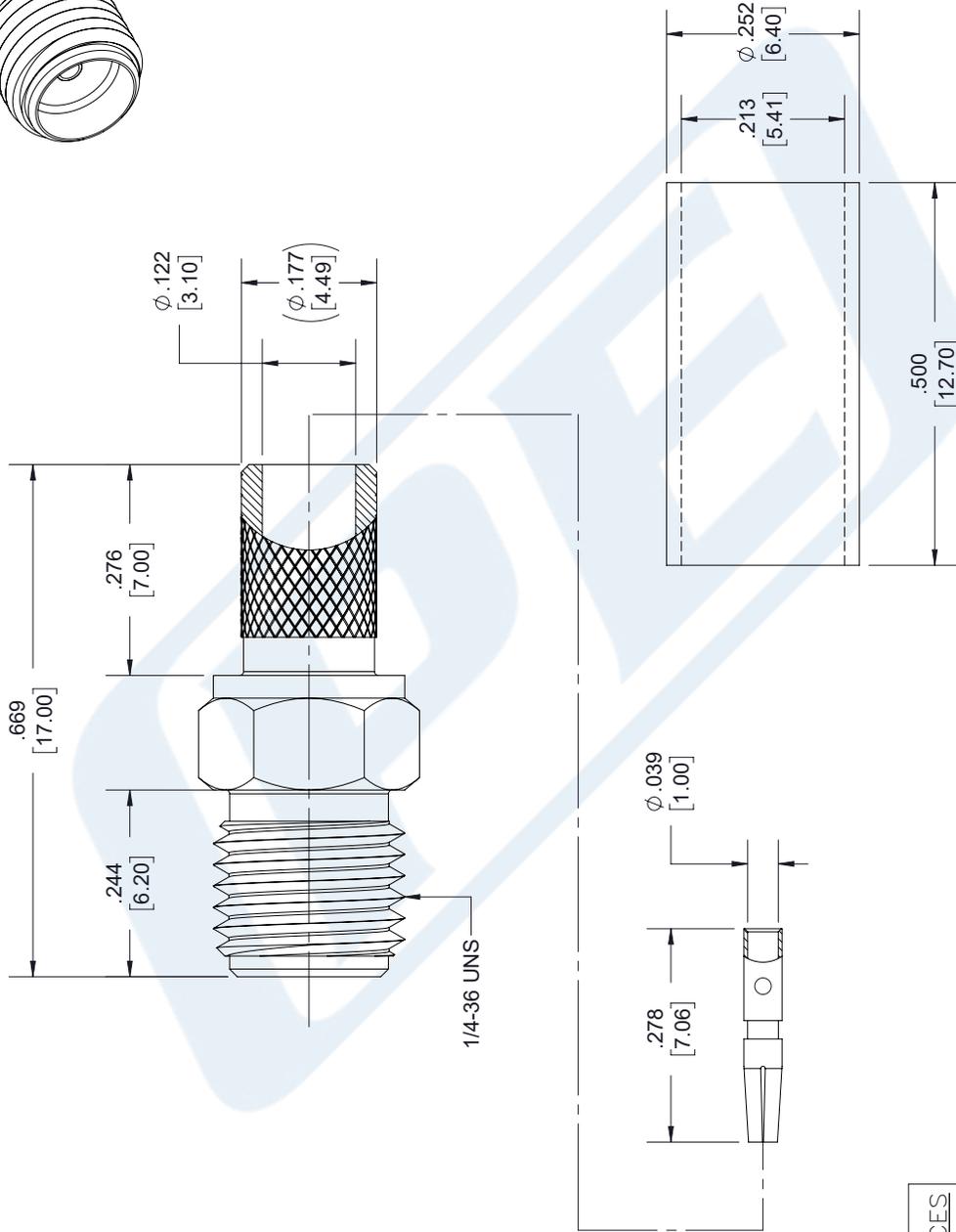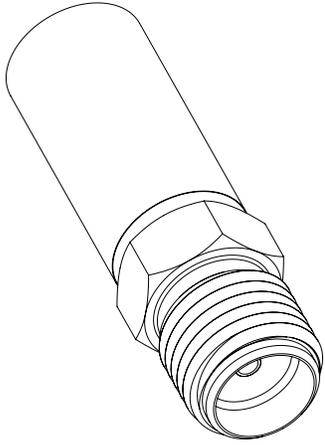
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URL: https://www.pasternack.com/sma-female-standard-rg58-connector-pe4413-p.aspx

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PE4413 CAD Drawing

SMA Female Connector Crimp/Solder Attachment for RG58

∅ .252 [6.40]

.213 [5.41]

.500 [12.70]

∅ .122 [3.10]

(∅ .177 [4.49])

.276 [7.00]

.669 [17.00]

.244 [6.20]

1/4-36 UNS

∅ .039 [1.00]

.278 [7.06]

7361

SIZE A

SCALE N/A

CAD FILE 110917

CAGE CODE 53919

DWG TITLE

PE4413

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

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES

PE4413 REV 2.1

5

PASTERNACK
an INFINITE brand

SMA Female Connector Crimp/Solder Attachment for RG58

RF Connectors
Technical Data Sheet   PE4413

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PE4413 REV 2.1   1

SMA Female Connector Crimp/Solder Attachment for RG58

RF Connectors
Technical Data Sheet   PE4413

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Environmental Specifications
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Operating Range   -65 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data
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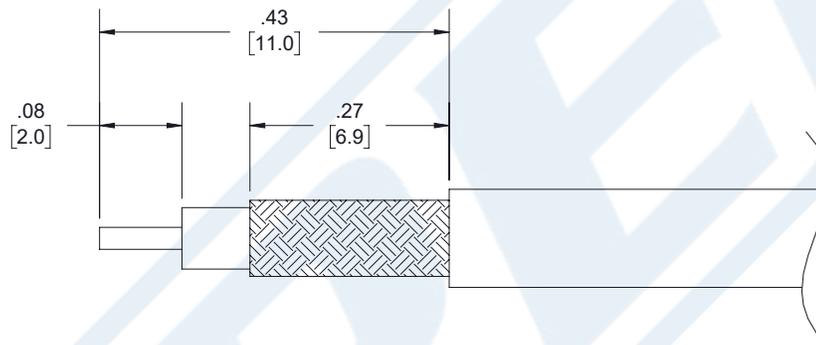SMA Female Connector Crimp/Solder Attachment for RG58

RF Connectors
Technical Data Sheet   **PE4413**

Assembly Instruction

*

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SMA Female Connector Crimp/Solder Attachment for RG58

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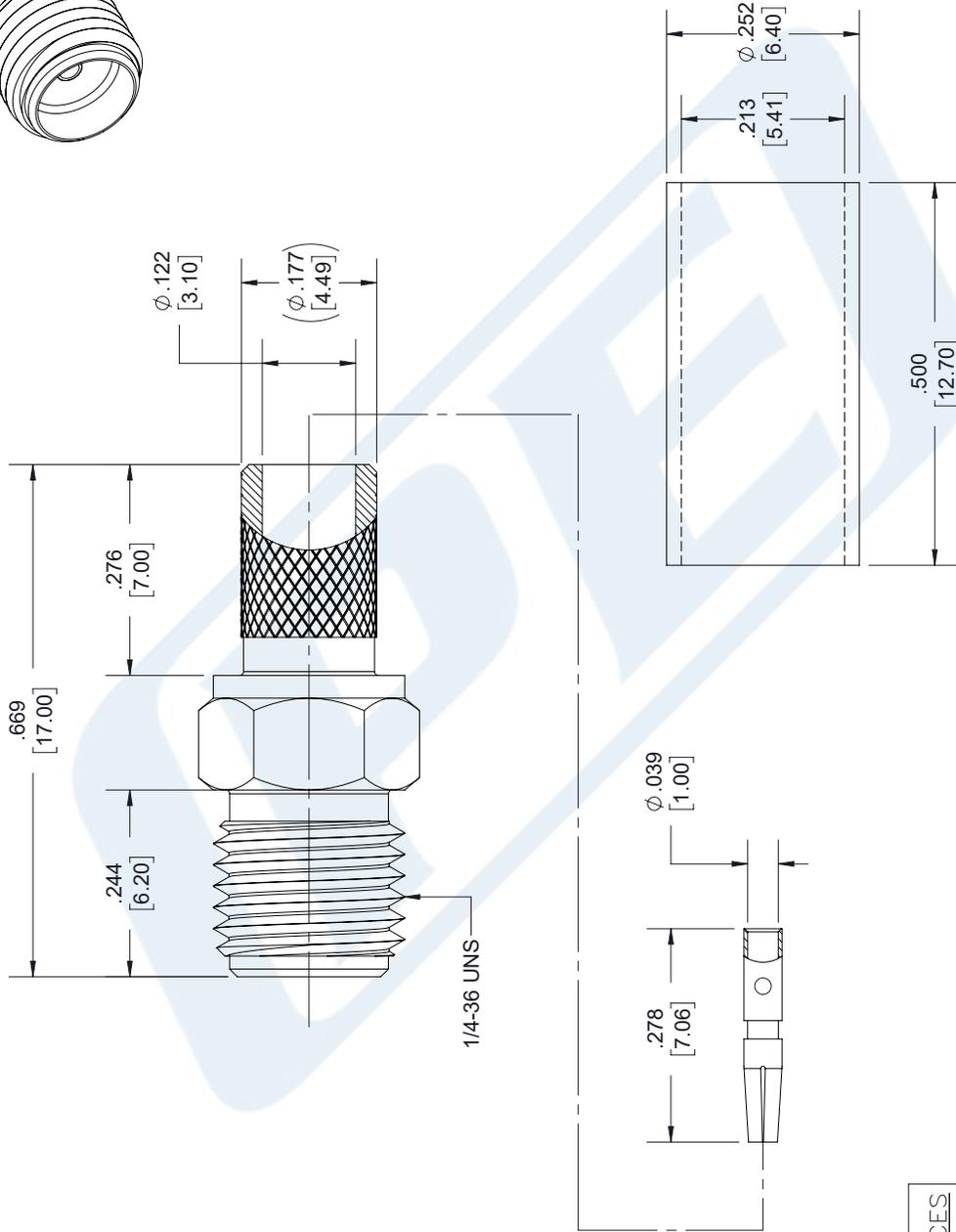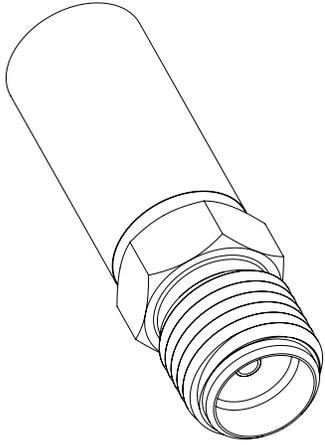
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PE4413 CAD Drawing

SMA Female Connector Crimp/Solder Attachment for RG58

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

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ONLY TO DIMENSIONS IN INCHES

PE4413 REV 2.1

Flexible RG58 Coax Cable Single Shielded
with Black PVC (NC) Jacket

RF Cables Technical Data Sheet

RG58C/U

Configuration
- Flexible Cable
- 1 Shield(s)

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5	GHz
Impedance		50		Ohms
Velocity of Propagation		65.9		%
Operating Voltage (AC)			1,900	Vrms
Nominal Capacitance		30.8 [101.05]		pF/ft [pF/m]

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.01	0.1	1	5		GHz
Attenuation, Typ	1.4	4.9	20	60		dB/100ft
	4.59	16.08	65.62	196.85		dB/100m
Input Power (CW), Max			44			Watts

Mechanical Specifications

Diameter	0.195 in [4.95 mm]
Weight	0.025 lbs/ft [0.04 Kg/m]
Min. Bend Radius (Installation)	0.98 in [24.89 mm]
Min. Bend Radius (Repeated)	1.96 in [49.78 mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, Tin, 19 Strands	0.036 in [0.91 mm]
Conductor Type	Stranded	
Dielectric	PE	0.116 in [2.95 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Flexible RG58 Coax Cable Single Shielded with Black PVC (NC) Jacket RG58C/U

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Flexible RG58 Coax Cable Single Shielded
with Black PVC (NC) Jacket

RF Cables Technical Data Sheet   RG58C/U

First Shield	Tinned Copper Braid	0.138 in [3.51 mm]
Jacket	PVC (NC), Black	0.195 in [4.95 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 RG58 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.
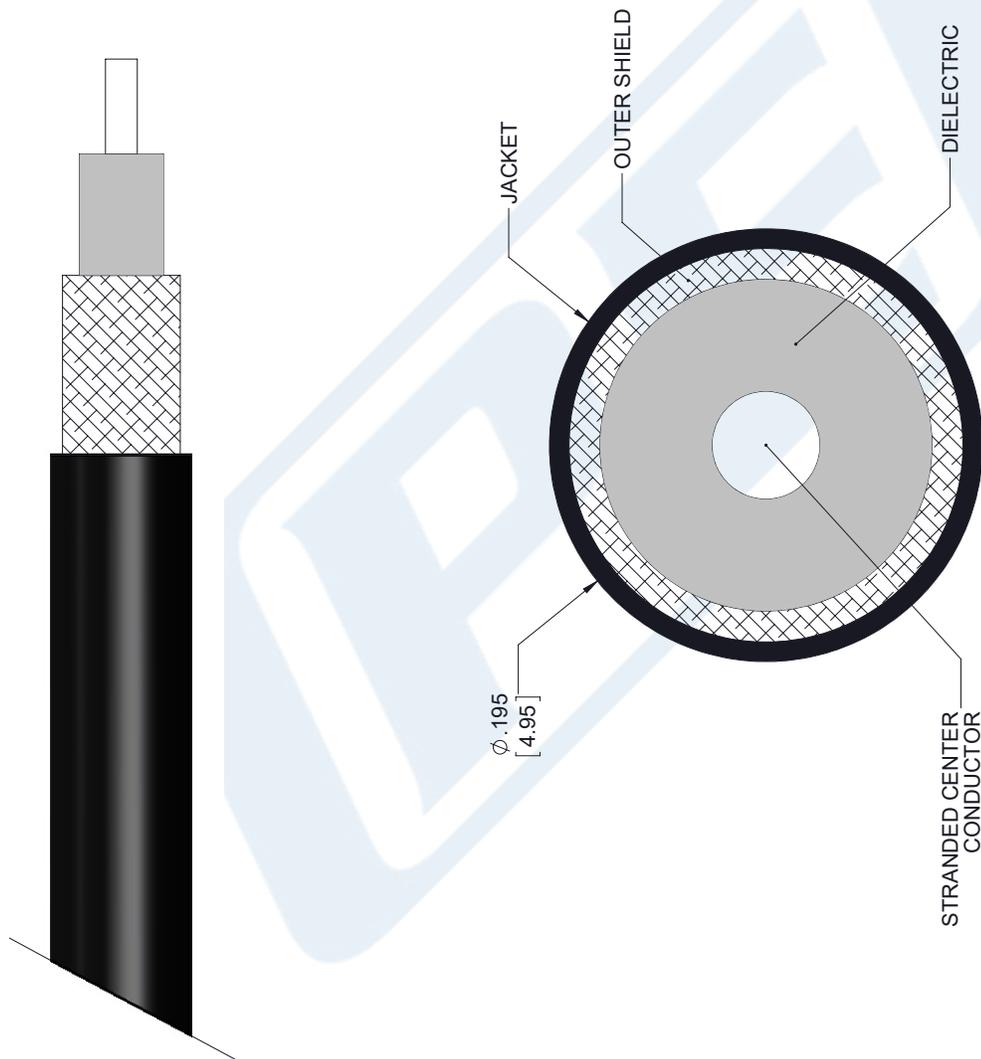
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URL: https://www.pasternack.com/flexible-0.195-rg58-50-ohm-coax-cable-pvc-jacket-rg58c-u-p.aspx

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RG58C/U CAD Drawing
Flexible RG58 Coax Cable Single Shielded with Black PVC (NC) Jacket

JACKET

OUTER SHIELD

DIELECTRIC

⌀ .195
[4.95]

STRANDED CENTER
CONDUCTOR

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
RG58C/U

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].

CAD FILE 091817

SCALE N/A

SIZE A

7361

RG58C/U REV 1.3