



RP SMA Female Connector Crimp/Solder Attachment
for RG55, RG141, RG142, RG223, RG400

RF Connectors Technical Data Sheet

PE4793

Configuration

- SMA Female Reverse Polarity Connector
- MIL-STD-348
- 50 Ohms
- Straight Body Geometry
- RG55, RG141, RG142, RG223, RG400 Interface Type
- Crimp/Solder Attachment

Features

- Gold Plated Contact
- Contact plating according to MIL-G-45204
- Reverse Polarity

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4793 RP SMA female 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. The female reverse polarity configuration uses a female connector body with a male inner contact pin.

Our reverse polarity SMA female connector PE4793 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.

Mechanical Specifications

| | |
|-------------|--------------------|
| Size | |
| Length | 0.91 in [23.11 mm] |
| Width/Dia. | 0.312 in [7.92 mm] |
| Weight | 0.006 lbs [2.72 g] |

Material Specifications

| Description | Material | Plating |
|-------------|----------|---------------------|
| Contact | | Gold MIL-G-45204 |
| Insulation | PTFE | |
| Body | Brass | Nickel QQ-N-290 |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [RP SMA Female Connector Crimp/Solder Attachment for RG55, RG141, RG142, RG223, RG400 PE4793](#)



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RF Connectors Technical Data Sheet

PE4793

Environmental Specifications

Temperature

Operating Range

-65 to +165 deg C

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

Plotted and Other Data

Notes:

RP SMA Female 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.

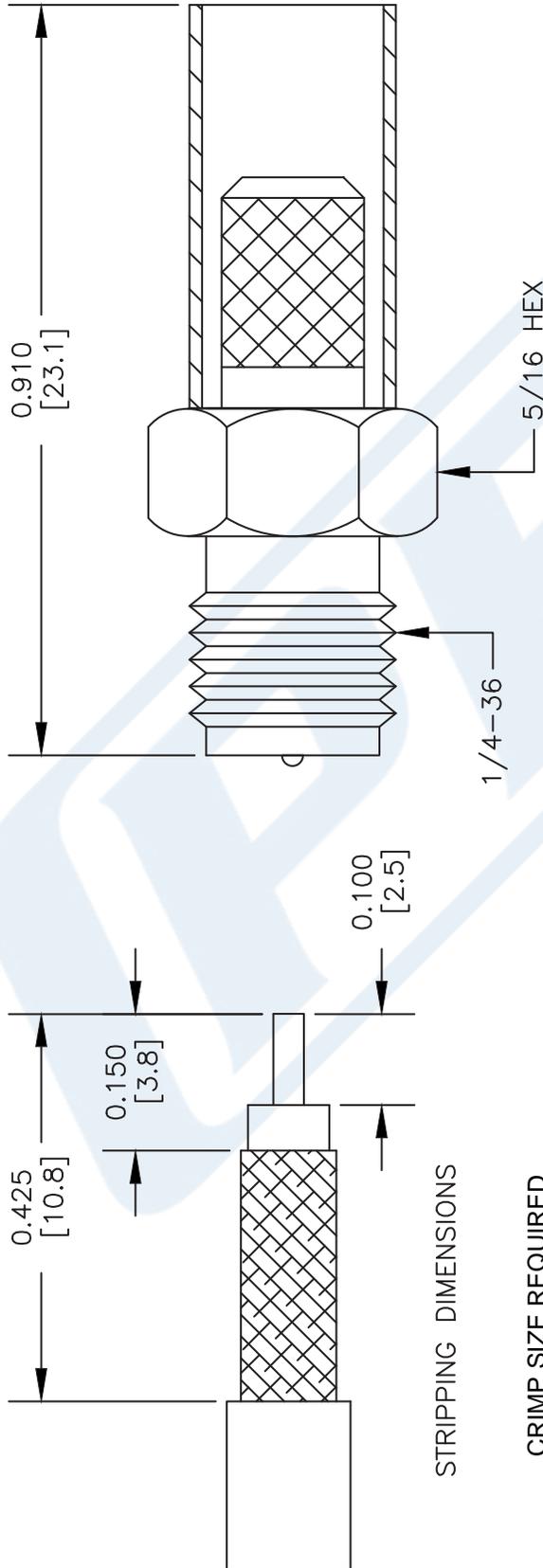
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URL: <https://www.pasternack.com/sma-female-reverse-polarity-rg55-rg141-rg142-rg223-rg400-connector-pe4793-p.aspx>

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.

PE4793 CAD Drawing

RP SMA Female Connector Crimp/Solder Attachment
for RG55, RG141, RG142, RG223, RG400



CRIMP SIZE REQUIRED

CONTACT: SOLDER
FERRULE: .213" HEX CRIMP TOOL



PASTERNAK®
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P.O. Box 16759 | Irvine | CA | 92623
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DWG TITLE

PE4793

FSCM NO. 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.

CAD FILE 060702

SCALE N/A

SIZE A

XXXX



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RP SMA Female Connector Crimp/Solder Attachment for RG55, RG141, RG142, RG223, RG400

RF Connectors Technical Data Sheet

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Environmental Specifications

Temperature

Operating Range

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

Plotted and Other Data

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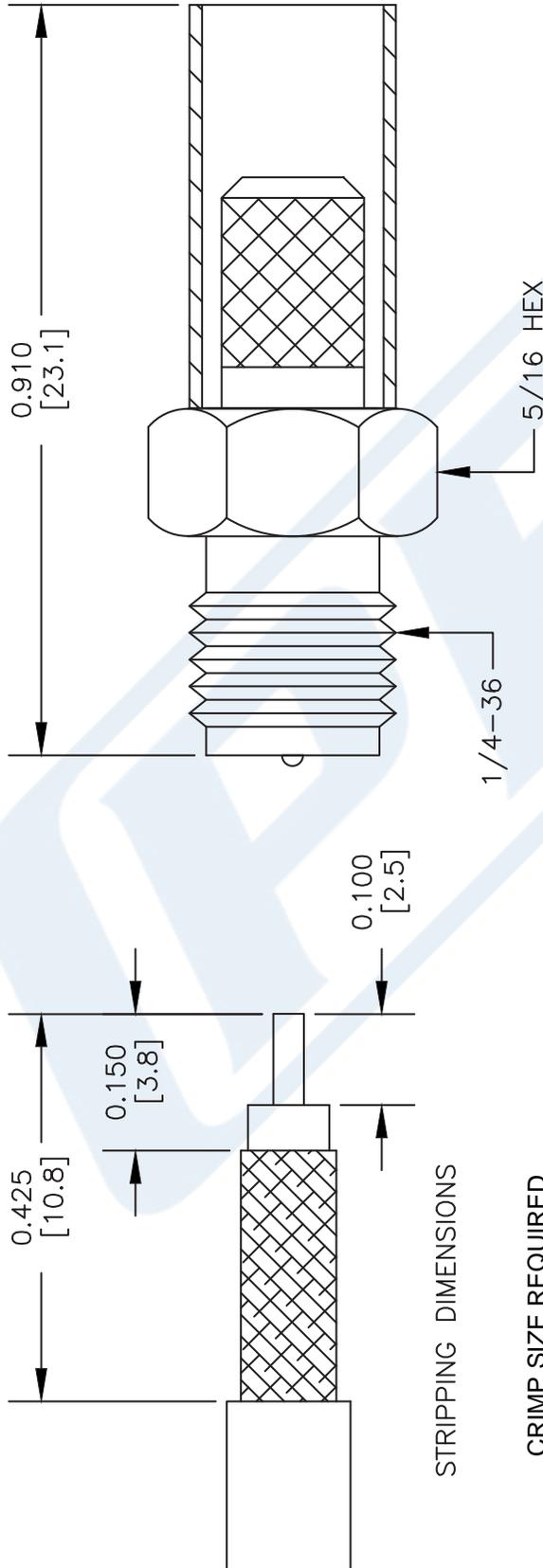
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PE4793 CAD Drawing

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for RG55, RG141, RG142, RG223, RG400



STRIPPING DIMENSIONS

CRIMP SIZE REQUIRED

CONTACT: SOLDER
FERRULE: .213" HEX CRIMP TOOL

DWG TITLE

PE4793

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FSCM NO. 53919

CAD FILE 060702

SCALE N/A

SIZE A

XXXX

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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:

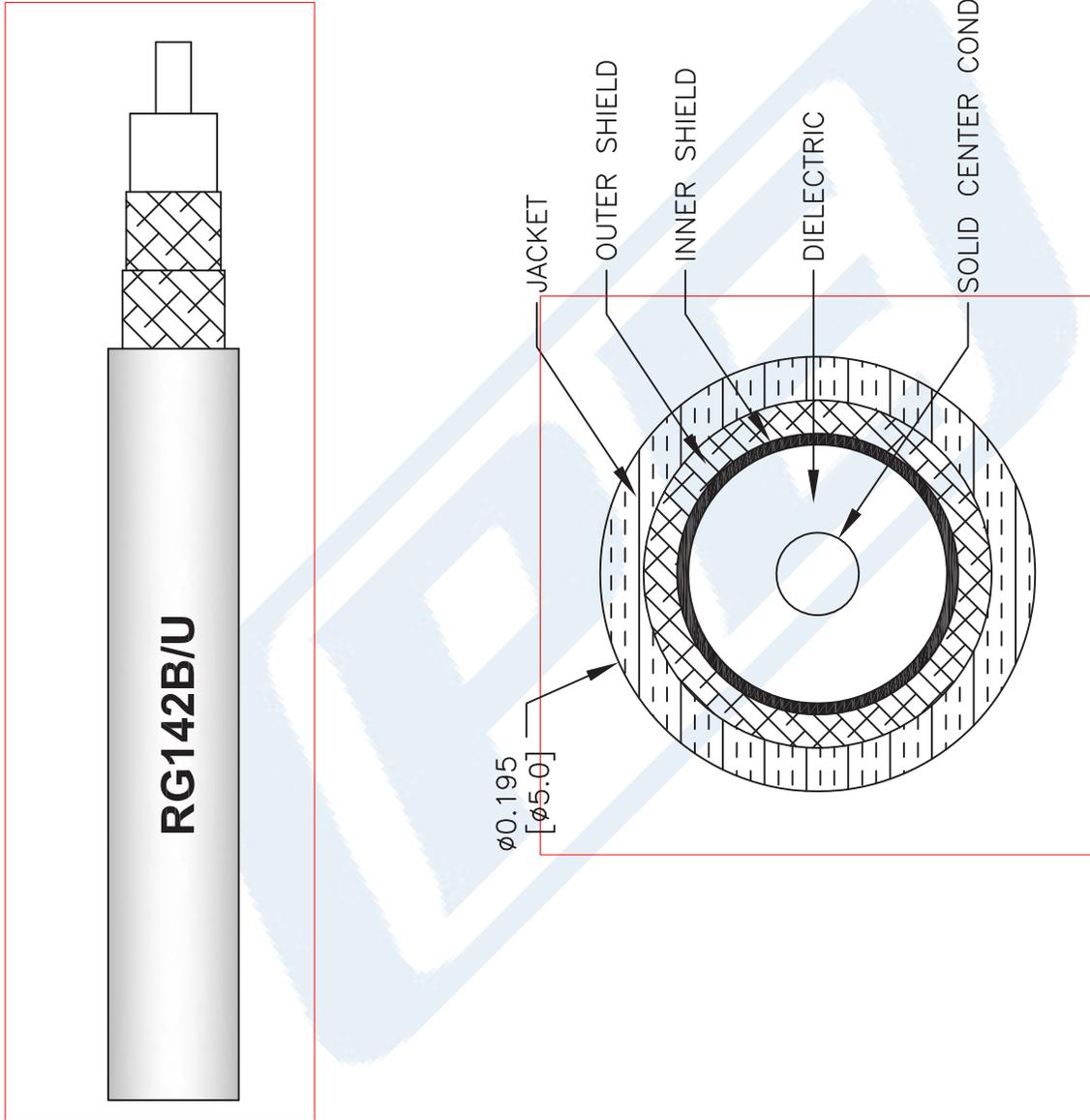
Flexible RG142 Coax Cable Double Shielded with Tan FEP Jacket from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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



DWG TITLE

RG142B/U

FSCM NO. 53919

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CAD FILE 111716

SCALE N/A

SIZE A

41742

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