



RP SMA Male Right Angle Connector Crimp/ Solder Attachment For RG178, RG196

TECHNICAL DATA SHEET

PE4788

RP SMA Male Right Angle Connector Crimp/Solder Attachment For RG178, RG196

Configuration

| | |
|--|---------------------------|
| Connector | SMA Male Reverse Polarity |
| Connector Specification | MIL-C-39012 |
| Connector Interface Type | RG178, RG196 |
| Cable Attachment Method (Shield/Contact) | Crimp/Solder |
| Body Style | Right Angle |

Electrical Specifications

| | |
|-----------------|----|
| Impedance, Ohms | 50 |
|-----------------|----|

Mechanical Specifications

Temperature

| | |
|------------------------|-------------|
| Operating Range, deg C | -65 to +165 |
|------------------------|-------------|

Size

| | |
|---------------------|---------------|
| Length, in [mm] | 0.705 [17.91] |
| Width/Dia., in [mm] | 0.312 [7.92] |
| Height, in [mm] | 0.608 [15.44] |
| Weight, lbs [g] | 0.013 [5.9] |

Connector

| | |
|-----------------------------------|---------------------------|
| Type | SMA Male Reverse Polarity |
| Contact Material and Plating | Gold |
| Contact Plating Specification | MIL-G-45204 |
| Coupling Nut Material and Plating | Brass, Nickel |
| Hex Size, in. | 5/16 |
| Torque, in-lbs [Nm] | 5 [0.57] |
| Body Material and Plating | Brass, Nickel |
| Dielectric Type | Teflon |

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

| | |
|----------------|-----|
| RoHS Compliant | Yes |
|----------------|-----|

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [RP SMA Male Right Angle Connector Crimp/Solder Attachment For RG178, RG196 PE4788](#)

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Solder Attachment For RG178, RG196

TECHNICAL DATA SHEET

PE4788

Plotted and Other Data

Notes:

Values at 25 °C, sea level

RP SMA Male Right Angle Connector Crimp/Solder Attachment For RG178, RG196 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.

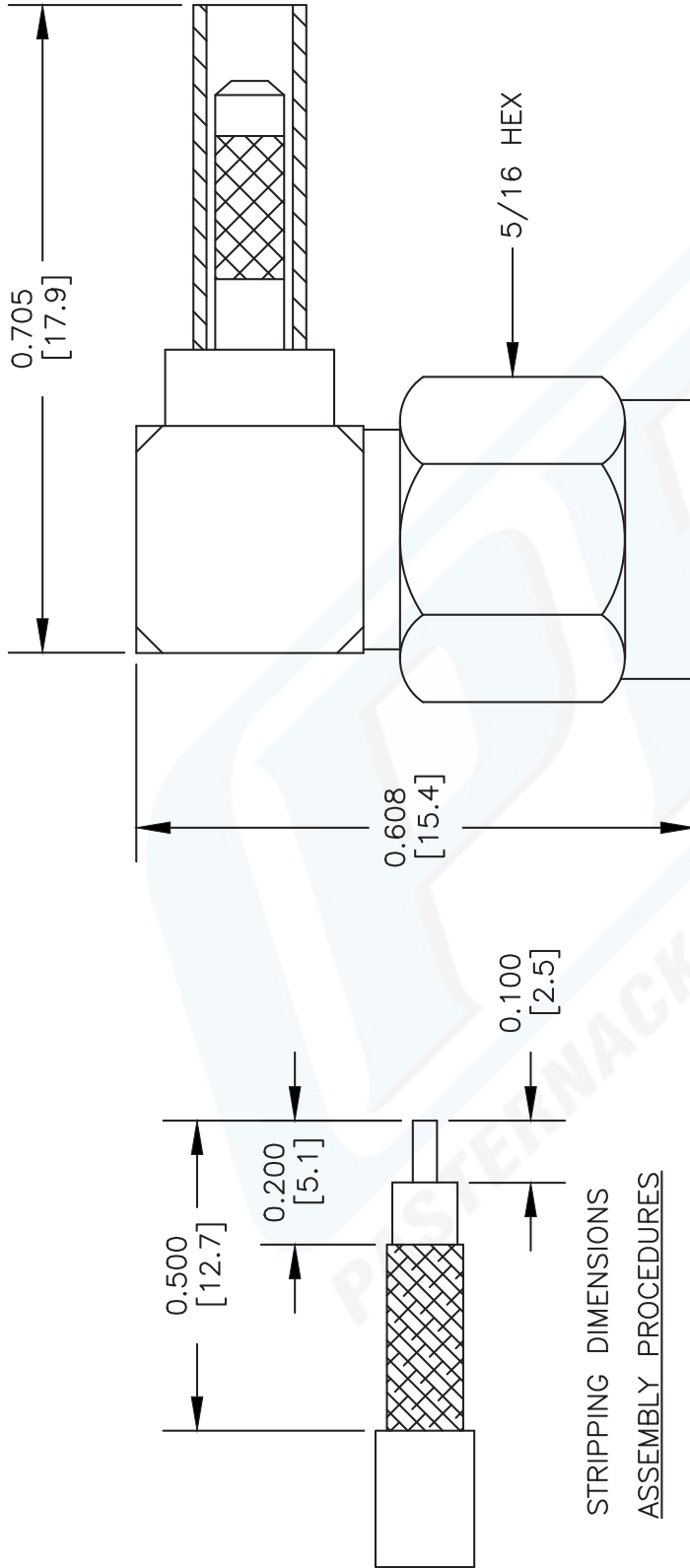
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URL: <http://www.pasternack.com/sma-male-reverse-polarity-rg178-rg196-connector-pe4788-p.aspx>

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PE4788 CAD Drawing

RP SMA Male Right Angle Connector Crimp/Solder Attachment For RG178, RG196



STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN & TIN CENTER CONDUCTOR. SLIDE FERRULE OVER CABLE.

2. INSTALL CABLE INTO BODY OF CONNECTOR AND SOFT SOLDER CENTER CONDUCTOR IN PLACE.

3. CRIMP FERRULE & PRESS CAP DOWN.

CRIMP SIZE REQUIRED

FERRULE: .100" HEX CRIMP TOOL



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DWG TITLE

PE4788

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



RP SMA Male Connector Clamp/Solder Attachment for RG178, RG196

RF Connectors Technical Data Sheet

PE4773

Configuration

- Standard SMA Male Reverse Polarity Connector
- MIL-STD-348
- 50 Ohms
- Straight Body Geometry
- RG178, RG196 Interface Type
- Clamp/Solder Attachment
- 5/16 inch Hex

Features

- Max. Operating Frequency 12.4 GHz
- Gold Plated Contact
- Contact plating according to MIL-G-45204
- Reverse Polarity

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4773 RP SMA male connector with clamp/solder attachment for RG178 and RG196 is part of our full line of RF components available for same-day shipping. The male reverse polarity configuration uses a male connector body with a female inner contact receptacle. Our SMA male connector operates up to a maximum frequency of 12.4 GHz.

Our reverse polarity SMA male connector PE4773 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 |
| Operating Voltage (AC) | | | 250 | Vrms |
| Dielectric Withstanding Voltage (AC) | | | 750 | Vrms |
| Insulation Resistance | 5,000 | | | MOhms |

Mechanical Specifications

Size

| | |
|---------------|---------------------------------|
| Length | 0.65 in [16.51 mm] |
| Width/Dia. | 0.312 in [7.92 mm] |
| Weight | 0.015 lbs [6.8 g] |
| Mating Torque | 3 to 5 in-lbs [0.34 to 0.57 Nm] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [RP SMA Male Connector Clamp/Solder Attachment for RG178, RG196 PE4773](#)



RP SMA Male Connector Clamp/Solder
Attachment for RG178, RG196

RF Connectors
Technical Data Sheet

PE4773

Material Specifications

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

Environmental Specifications

Temperature

Operating Range

-65 to +165 deg C

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

Plotted and Other Data

Notes:

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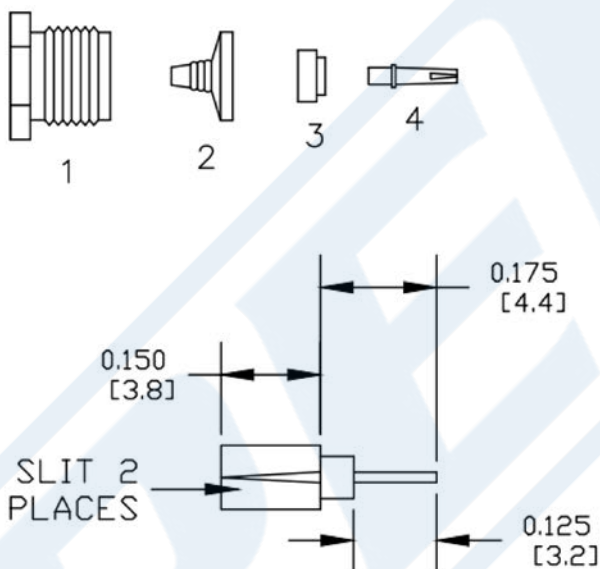


RP SMA Male Connector Clamp/Solder
Attachment for RG178, RG196

RF Connectors
Technical Data Sheet

PE4773

Assembly Instruction



STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN. DO NOT NICK CENTER CONDUCTOR. TIN CENTER CONDUCTOR. SLIT JACKET IN 2 PLACES.
2. SLIDE CLAMP NUT (1) OVER CABLE. FLAIR BRAID & SLIDE EXTENSION (2) UNDER BRAID WITH CENTER CONDUCTOR PROTRUDING THROUGH HOLE.
3. SLIDE INSULATOR (3) OVER CENTER CONDUCTOR. SOLDER CONTACT TO CENTER CONDUCTOR.
4. INSTALL CABLE ASSEMBLY INTO BODY & TIGHTEN.

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RP SMA Male Connector Clamp/Solder Attachment for RG178, RG196

RF Connectors Technical Data Sheet

PE4773

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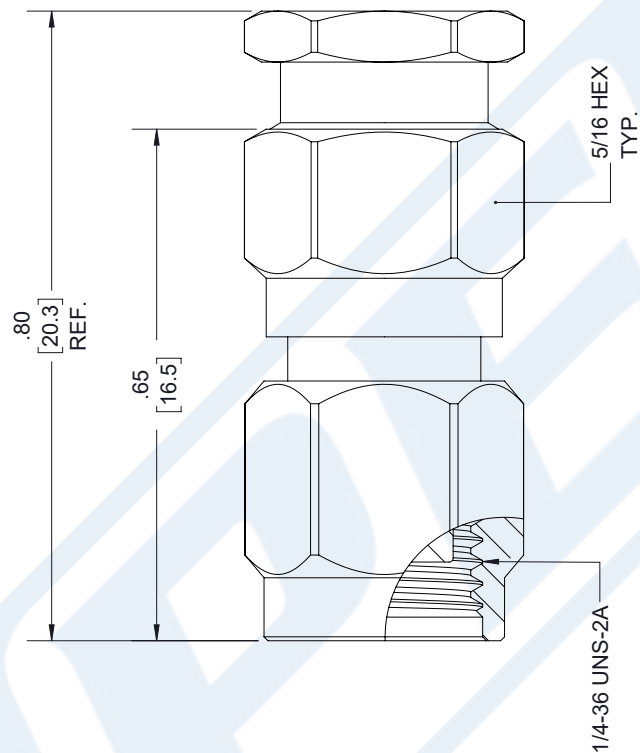
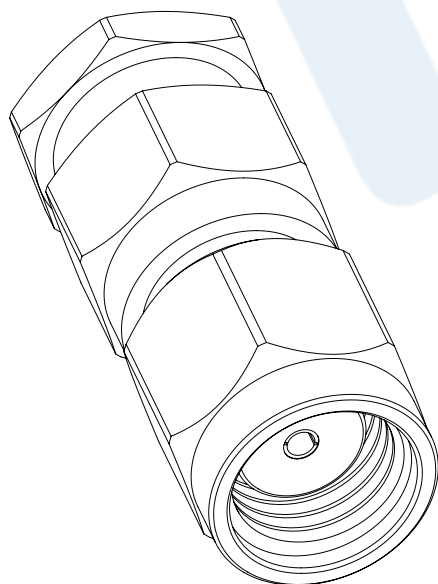
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PE4773 CAD Drawing

RP SMA Male Connector Clamp/Solder Attachment for RG178, RG196



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

PE4773

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CAGE CODE 53919

CAD FILE 07/03/18

SCALE N/A

SIZE A

7361

Flexible RG196 Coax Cable Single Shielded with White PTFE Jacket

RF Cables Technical Data Sheet

RG196A/U

Configuration

- Flexible Cable
- 1 Shield(s)

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|-------------|---------|--------------|
| Frequency Range | DC | | 1,000 | MHz |
| Impedance | | 50 | | Ohms |
| Dielectric Withstanding Voltage (AC) | | | 2,000 | Vrms |
| Nominal Capacitance | | 32 [104.99] | | pF/ft [pF/m] |

Performance by Frequency Band

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|------------------|--------|----|----|----|----|----------|
| Frequency | 400 | | | | | MHz |
| Attenuation, Typ | 33 | | | | | dB/100ft |
| | 108.27 | | | | | dB/100m |

Mechanical Specifications

| | |
|----------|--------------------------|
| Diameter | 0.08 in [2.03 mm] |
| Weight | 0.005 lbs/ft [0.01 Kg/m] |

Construction Specifications

| Description | Material and Plating | Diameter |
|-----------------|--|--------------------|
| Inner Conductor | Copper Clad Steel, Silver, 7 Strands | 0.011 in [0.28 mm] |
| Conductor Type | Stranded | |
| Dielectric | PTFE | 0.035 in [0.89 mm] |
| First Shield | Silver Plated Copper Braid 92.3% coverage | 0.054 in [1.37 mm] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG196 Coax Cable Single Shielded with White PTFE Jacket RG196A/U](#)

Flexible RG196 Coax Cable Single Shielded with White PTFE Jacket

RF Cables Technical Data Sheet

RG196A/U

| | | |
|--------|-------------|-------------------|
| Jacket | PTFE, White | 0.08 in [2.03 mm] |
|--------|-------------|-------------------|

Environmental Specifications

Temperature

Operating Range -55 to +200 deg C

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

Plotted and Other Data

Notes:

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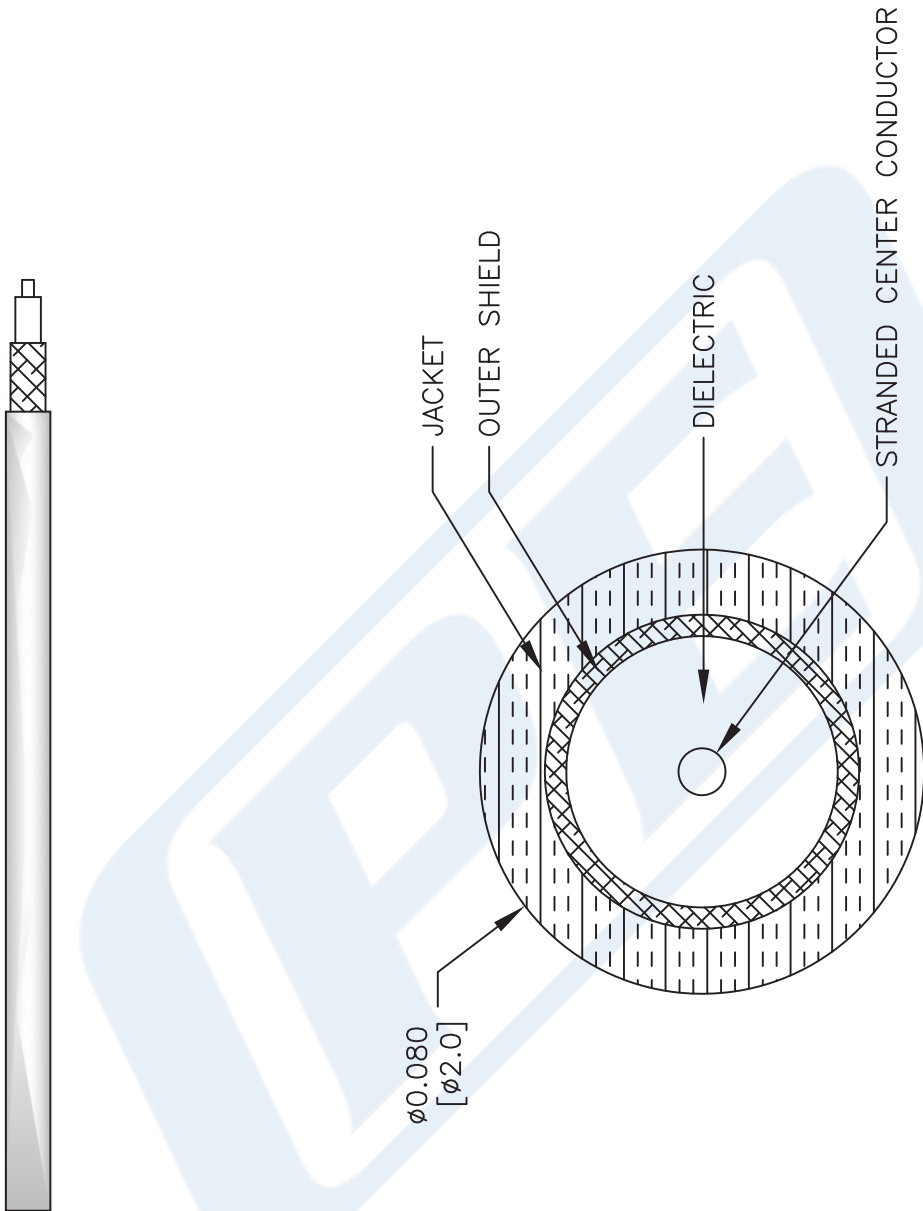
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URL: <https://www.pasternack.com/flexible-0.080-rg196-50-ohm-coax-cable-ptfe-jacket-rg196a-u-p.aspx>

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RG196A/U CAD Drawing

Flexible RG196 Coax Cable Single Shielded with White PTFE Jacket



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DWG TITLE
RG196A/U

FSCM NO. 53919

CAD FILE

111716

SCALE N/A

SIZE A

41742

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THE ENGINEER'S RF SOURCE

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