



SMB Plug Connector Crimp/Solder Attachment for RG58, RG303, RG141, PE-C195, PE-P195, LMR-195, 0.195 inch

RF Connectors Technical Data Sheet

PE4523

Configuration

- SMB Plug Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- RG58, RG303, RG141, PE-C195, PE-P195, LMR-195, 0.195 inch Interface Type
- Crimp/Solder Attachment

Features

- Max. Operating Frequency 4 GHz
- Good VSWR of 1.3:1
- Gold Plated Beryllium Copper Contact
- 30 μ m minimum contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4523 SMB plug connector with crimp/solder attachment for RG58, RG303, RG141, PE-C195, PE-P195, LMR-195 and 0.195 inch is part of our full line of RF components available for same-day shipping. Our SMB plug connector operates up to a maximum frequency of 4 GHz and offers good VSWR of 1.3:1.

Our SMB plug connector PE4523 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 | | 4 | GHz |
| VSWR | | | 1.3:1 | |
| Operating Voltage (AC) | | | 335 | Vrms |

Mechanical Specifications

Size

| | |
|------------|--------------------|
| Length | 1.05 in [26.67 mm] |
| Width/Dia. | 0.256 in [6.50 mm] |
| Weight | 0.015 lbs [6.8 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMB Plug Connector Crimp/Solder Attachment for RG58, RG303, RG141, PE-C195, PE-P195, LMR-195, 0.195 inch PE4523](#)



SMB Plug Connector Crimp/Solder Attachment for RG58,
RG303, RG141, PE-C195, PE-P195, LMR-195, 0.195 inch

RF Connectors Technical Data Sheet

PE4523

Material Specifications

| Description | Material | Plating |
|-------------|------------------|---------------------------|
| Contact | Beryllium Copper | Gold 30 µin minimum |
| Insulation | PTFE | |
| Body | Brass | Nickel 100 µin minimum |

Environmental Specifications

Temperature

Operating Range -65 to +165 deg C

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

Plotted and Other Data

Notes:

SMB Plug Connector Crimp/Solder Attachment for RG58, RG303, RG141, PE-C195, PE-P195, LMR-195, 0.195 inch 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.

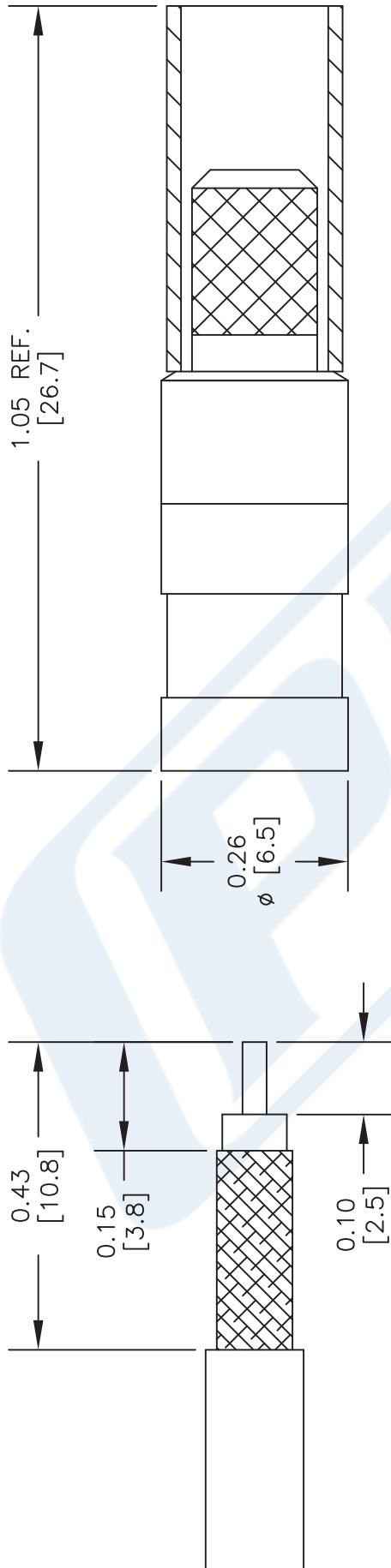
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URL: <https://www.pasternack.com/smb-plug-standard-rg58-connector-pe4523-p.aspx>

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.

PE4523 CAD Drawing

SMB Plug Connector Crimp/Solder Attachment for RG58, RG303,
RG141, PE-C195, PE-P195, LMR-195, 0.195 inch



STRIPPING DIMENSIONS

CRIMP SIZE REQUIRED

CONTACT: SOLDER

FERRULE: .213" HEX CRIMP TOOL



Pasternack Enterprises, Inc.
P.O. Box 16759 | Irvine | CA | 92623
Phone: (949) 261-1920 | Fax: (949) 261-7451
Website: www.pasternack.com | E-Mail: sales@pasternack.com

DWG TITLE

PE4523

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.

REV. A

FSCM NO. 53919

CAD FILE 020812

SCALE N/A

SIZE A

2233



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Mechanical Specifications

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SMB Plug Connector Crimp/Solder Attachment for RG58,
RG303, RG141, PE-C195, PE-P195, LMR-195, 0.195 inch

RF Connectors Technical Data Sheet

PE4523

Material Specifications

| Description | Material | Plating |
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| Contact | Beryllium Copper | Gold 30 µin minimum |
| Insulation | PTFE | |
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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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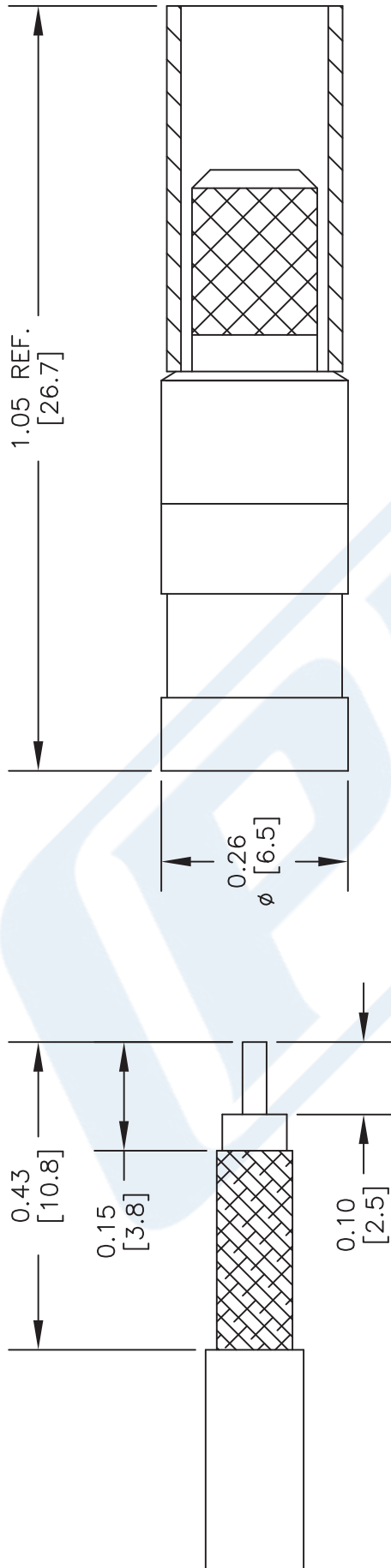
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URL: <https://www.pasternack.com/smb-plug-standard-rg58-connector-pe4523-p.aspx>

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PE4523 CAD Drawing

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DWG TITLE

PE4523

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REV. A

FSCM NO. 53919

CAD FILE 020812

SCALE N/A

SIZE A

2233



Low Loss Flexible PE-P195 Coax Cable Triple Shielded with Tan FEP Jacket

RF Cables Technical Data Sheet

PE-P195

Configuration

- Low Loss Flexible Cable
- 3 Shield(s)

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|------------|---------|--------------|
| Frequency Range | DC | | 22 | GHz |
| Impedance | | 50 | | Ohms |
| Velocity of Propagation | | 70 | | % |
| Operating Voltage (AC) | | | 1,900 | Vrms |
| Dielectric Withstanding Voltage (AC) | | | 5,000 | Vrms |
| Nominal Capacitance | | 29 [95.14] | | pF/ft [pF/m] |

Performance by Frequency Band

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|------------------|------|-------|-------|--------|--------|----------|
| Frequency | 0.1 | 0.5 | 1 | 5 | 10 | GHz |
| Attenuation, Typ | 3.9 | 8.8 | 12.5 | 31.5 | 45 | dB/100ft |
| | 12.8 | 28.87 | 41.01 | 103.35 | 147.64 | dB/100m |

| Description | F6 | F7 | F8 | F9 | F10 | Units |
|------------------|--------|--------|--------|-------|-----|----------|
| Frequency | 15 | 18 | 20 | 22 | | GHz |
| Attenuation, Typ | 58 | 65 | 69 | 73 | | dB/100ft |
| | 190.29 | 213.25 | 226.38 | 239.5 | | dB/100m |

Mechanical Specifications

| | |
|-----------------------------|--------------------------|
| Diameter | 0.195 in [4.95 mm] |
| Weight | 0.038 lbs/ft [0.06 Kg/m] |
| Min. Bend Radius (Repeated) | 1 in [25.4 mm] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low Loss Flexible PE-P195 Coax Cable Triple Shielded with Tan FEP Jacket PE-P195](#)



Low Loss Flexible PE-P195 Coax Cable Triple Shielded with Tan FEP Jacket

RF Cables Technical Data Sheet

PE-P195

Construction Specifications

| Description | Material and Plating | Diameter |
|-----------------|--------------------------------------------|--------------------|
| Inner Conductor | Copper Clad Steel, Silver, 1 Strands | 0.037 in [0.94 mm] |
| Conductor Type | Solid | |
| Dielectric | PTFE | 0.116 in [2.95 mm] |
| First Shield | Silver Plated Copper Braid 96% coverage | 0.126 in [3.2 mm] |
| Second Shield | Aluminum Tape | 0.132 in [3.35 mm] |
| Third Shield | Silver Plated Copper Braid 96% coverage | 0.155 in [3.94 mm] |
| Jacket | FEP, Tan | 0.195 in [4.95 mm] |

Environmental Specifications

Temperature

Operating Range -55 to +200 deg C

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

Plotted and Other Data

Notes:

Low Loss Flexible PE-P195 Coax Cable Triple 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: [Low Loss Flexible PE-P195 Coax Cable Triple Shielded with Tan FEP Jacket PE-P195](#)

URL: <https://www.pasternack.com/precision-0.195-rg142-solid-center-conductor-52-ohm-coax-cable-fep-jacket-pe-p195-p.aspx>

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PE-P195 CAD Drawing

Low Loss Flexible PE-P195 Coax Cable Triple Shielded with Tan FEP Jacket



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DWG TITLE
PE-P195

FSCM NO. 53919

CAD FILE 111716

SCALE N/A

SIZE A

41742

P**E** **PASTERNAK**
THE ENGINEER'S RF SOURCE

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