



SMA Male Right Angle Connector Crimp/Solder Attachment for RG188-DS, RG316-DS

RF Connectors Technical Data Sheet

PE4408

Configuration

- SMA Male Connector
- MIL-STD-348A
- 50 Ohms
- Right Angle Body Geometry
- RG188-DS, RG316-DS Interface Type
- Crimp/Solder Attachment
- 5/16 inch Hex

Features

- Max. Operating Frequency 3 GHz
- Good VSWR of 1.4:1
- Gold Plated Brass Contact
- 50 µin minimum contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4408 SMA male right angle connector with crimp/solder attachment for RG188-DS and RG316-DS is part of our full line of RF components available for same-day shipping. Our SMA male connector operates up to a maximum frequency of 3 GHz and offers good VSWR of 1.4:1. Its right angle body geometry allows for easier connections in tight spaces.

Our SMA male right angle connector PE4408 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 | | 3 | GHz |
| VSWR | | | 1.4:1 | |
| Operating Voltage (AC) | | | 335 | Vrms |
| Dielectric Withstanding Voltage (AC) | | | 750 | Vrms |

Mechanical Specifications

Size

| | |
|---------------|---------------------------------|
| Length | 0.61 in [15.49 mm] |
| Width/Dia. | 0.315 in [8.00 mm] |
| Height | 0.69 in [17.53 mm] |
| Weight | 0.016 lbs [7.26 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: [SMA Male Right Angle Connector Crimp/Solder Attachment for RG188-DS, RG316-DS PE4408](#)



SMA Male Right Angle Connector Crimp/Solder Attachment for RG188-DS, RG316-DS

RF Connectors Technical Data Sheet

PE4408

Material Specifications

| Description | Material | Plating |
|--------------|----------|---------------------------|
| Contact | Brass | Gold 50 µin minimum |
| Insulation | PTFE | |
| Body | Brass | Nickel 100 µin minimum |
| Coupling Nut | Brass | Nickel 100 µin minimum |
| Crimp Sleeve | Brass | Nickel |

Environmental Specifications

Temperature

Operating Range -65 to +165 deg C

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

Plotted and Other Data

Notes:

SMA Male Right Angle Connector Crimp/Solder Attachment for RG188-DS, RG316-DS 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.

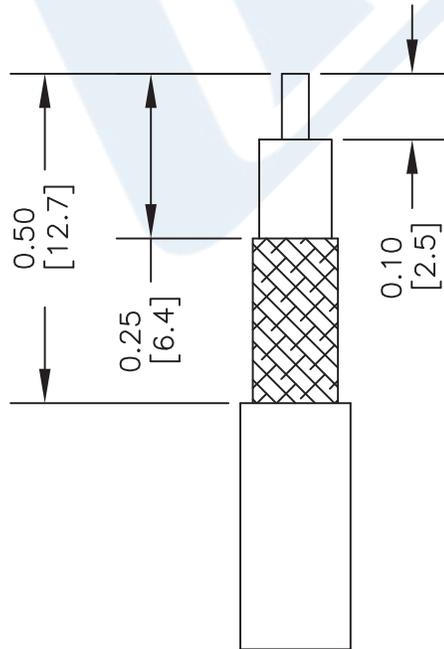
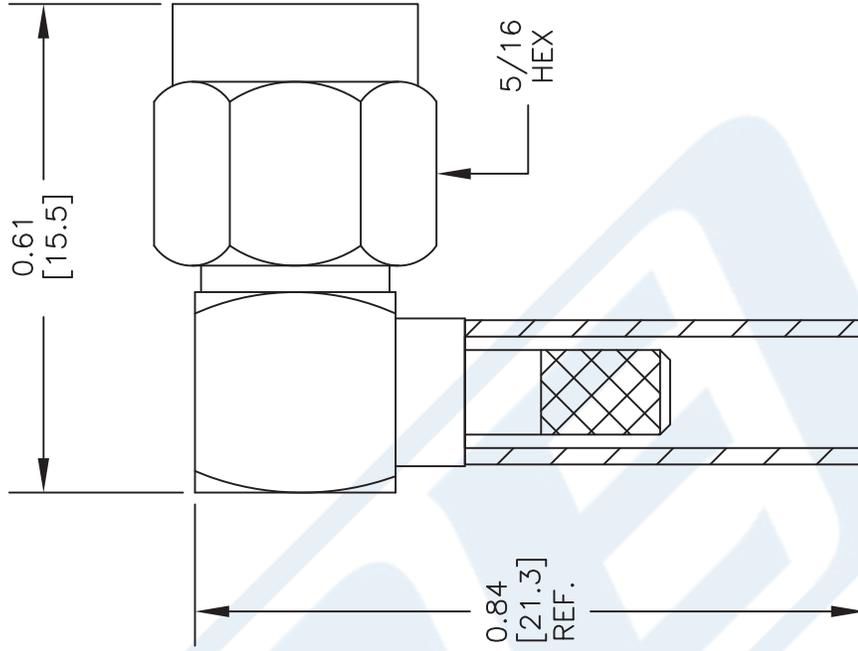
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URL: <https://www.pasternack.com/sma-male-rg188-ds-rg316-ds-connector-pe4408-p.aspx>

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PE4408 CAD Drawing

SMA Male Right Angle Connector Crimp/Solder Attachment for RG188-DS, RG316-DS



STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN & 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: .151" HEX CRIMP TOOL

DWG TITLE

PE4408

- 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.

FSCM NO. 53919

CAD FILE 031615

SCALE N/A

SIZE A

2233



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SSMC Plug Right Angle Connector Crimp/Solder Attachment for RG316-DS, RG188-DS

RF Connectors Technical Data Sheet

PE45498

Configuration

- SSMC Plug Connector
- 50 Ohms

- Right Angle Body Geometry
- Connector Interface Types: RG316-DS, RG188-DS

Features

- Max. Operating Frequency 12.4 GHz
- Good VSWR of 1.62:1
- Gold Plated Beryllium Copper Contact
- Contact plating according to MIL-G-45204
- Reliable threaded coupling

- Small SSMC connector form factor (50% smaller than SMA, radially)
- IEC 60169-20 SSMC connector interface
- In stock and ready to ship

Applications

- General Purpose Test
- Custom Cable Assemblies
- Avionics

- A/D Modules
- Data Acquisition
- Software defined radio (SDR)

- RADAR/SONAR
- Ultra Wideband Digital Receivers
- Medical equipment

Description

Pasternack's PE45498 SSMC plug right angle connector with crimp/solder attachment for RG316-DS and RG188-DS is part of our full line of RF components available for same-day shipping. Our SSMC plug connector operates up to a maximum frequency of 12.4 GHz and offers good VSWR of 1.62:1. Its right angle body geometry allows for easier connections in tight spaces.

Our SSMC plug right angle connector PE45498 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 | | | 1.62:1 | |
| Insertion Loss | | | 0.3 | dB |
| Operating Voltage (AC) | | | 250 | Vrms |
| High Potential Voltage 5 MHz | | | 400 | Vrms |
| Inner Conductor DC Resistance | | | 4 | mOhms |
| Outer Conductor DC Resistance | | | 1 | mOhms |
| Insulation Resistance | 1,000 | | | MOhms |
| RF Leakage | -50 | | | dB |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SSMC Plug Right Angle Connector Crimp/Solder Attachment for RG316-DS, RG188-DS PE45498](#)



SSMC Plug Right Angle Connector Crimp/Solder Attachment for RG316-DS, RG188-DS

RF Connectors
Technical Data Sheet

PE45498

Mechanical Specifications

| | |
|---------------|------------------------------------|
| Size | |
| Length | 0.421 in [10.69 mm] |
| Width/Dia. | 0.156 in [3.96 mm] |
| Height | 0.33 in [8.38 mm] |
| Mating Cycles | 500 Cycles |
| Mating Torque | 1.75 to 2 in-lbs [0.20 to 0.23 Nm] |

Material Specifications

| Description | Material | Plating |
|--------------|------------------|---------------------|
| Contact | Beryllium Copper | Gold MIL-G-45204 |
| Insulation | Teflon | |
| Body | Brass | Gold MIL-G-45204 |
| Coupling Nut | Beryllium Copper | Gold MIL-G-45204 |
| Crimp Sleeve | Brass | Gold MIL-G-45204 |

Environmental Specifications

| | |
|--------------------|---|
| Temperature | |
| Operating Range | -65 to +165 deg C |
| Shock | Method 213, Condition B, 75G @6ms @1/2 sine |
| Vibration | Method 204, Condition D (20G) |
| Salt Spray | Method 101, Condition B, 5% salt solution |

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: [SSMC Plug Right Angle Connector Crimp/Solder Attachment for RG316-DS, RG188-DS PE45498](#)



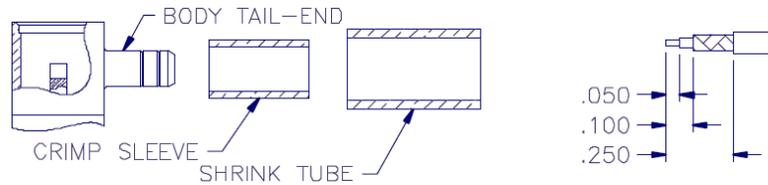
SSMC Plug Right Angle Connector Crimp/Solder Attachment for RG316-DS, RG188-DS

RF Connectors
Technical Data Sheet

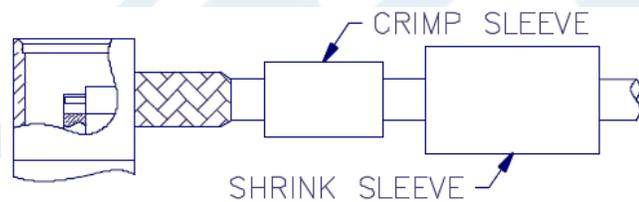
PE45498

Assembly Instruction

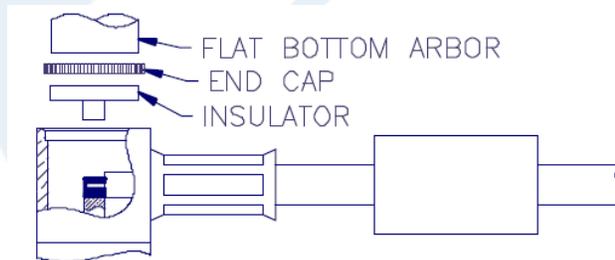
Assembly Instructions



1. TRIM CABLE AS SHOWN ABOVE. TIN END OF CENTER CONDUCTOR.
2. SLIDE CRIMP SLEEVE AND SHRINK TUBE (IF SUPPLIED) OVER CABLE JACKET.
3. FLARE CABLE BRAID OUT SLIGHTLY BY ROTATING DIELECTRIC.



4. INSERT CABLE ASSEMBLY INTO BODY TAIL-END MAKING SURE TAIL GOES OVER DIELECTRIC AND UNDER BRAID. SLIDE IN UNTIL BRAID TOUCHES REAR SURFACE OF BODY.
5. SLIDE CRIMP SLEEVE FORWARD AND USE .105 HEX DIE TO CRIMP SLEEVE TO BRAID.



6. SOLDER CENTER CONDUCTOR OF CABLE TO CONTACT.
7. PLACE INSULATOR AND END CAP INTO CONNECTOR BODY AS SHOWN AND USE A .185" DIAMETER FLAT BOTTOM PUNCH TO PRESS CAP IN PLACE. CAP MUST BE BELOW SURFACE TO SEAT PROPERLY.
8. SLIDE SHRINK TUBE (IF SUPPLIED) OVER CRIMP SLEEVE AND SHRINK TO FIT.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SSMC Plug Right Angle Connector Crimp/Solder Attachment for RG316-DS, RG188-DS PE45498](#)



SSMC Plug Right Angle Connector Crimp/Solder Attachment for RG316-DS, RG188-DS

RF Connectors Technical Data Sheet

PE45498

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Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SSMC Plug Right Angle Connector Crimp/Solder Attachment for RG316-DS, RG188-DS PE45498](https://www.pasternack.com/ssmc-plug-rg316-ds-rg188-ds-connector-pe45498-p.aspx)

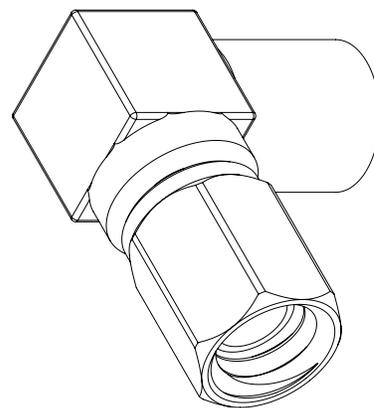
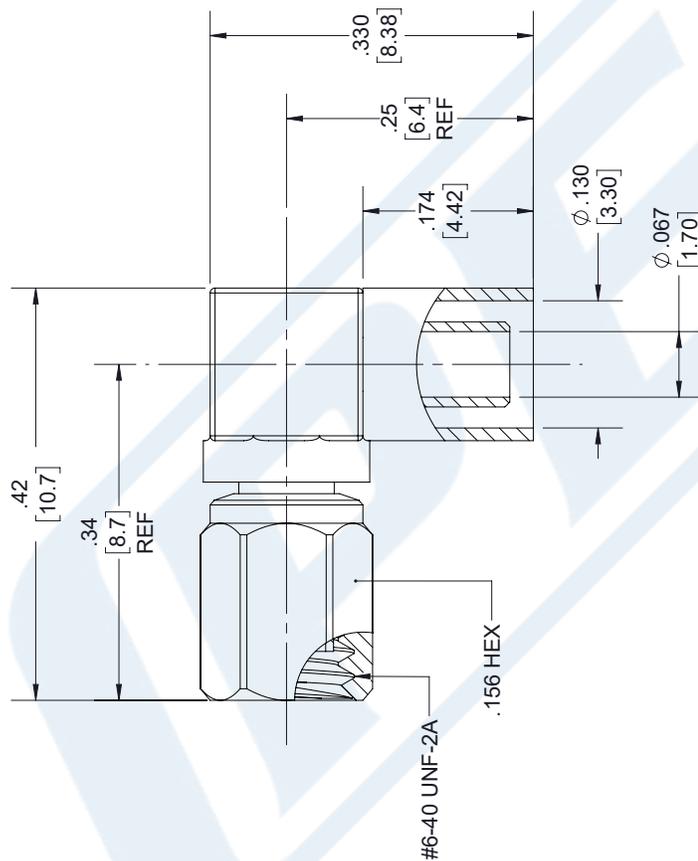
URL: <https://www.pasternack.com/ssmc-plug-rg316-ds-rg188-ds-connector-pe45498-p.aspx>

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PE45498 CAD Drawing

SSMC Plug Right Angle Connector Crimp/Solder Attachment for RG316-DS, RG188-DS

| REVISIONS | | | |
|-----------|-----------------|----------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | INITIAL RELEASE | 09/04/19 | S. ELLIS |



UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

| | | |
|-----------|--------|-------------|
| X±.2 | [5.08] | FRACTIONS |
| .XX±.01 | [.25] | ±.132 |
| .XXX±.005 | [.13] | ANGLES ± 1° |

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1
SCALE N/A

SIZE [CAGE] DRAWN BY PART NUMBER REV
A 53919 K.DANG PE45498 A

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Flexible RG188 Coax Cable Double Shielded with White PTFE Jacket

RF Cables Technical Data Sheet

RG188-DS

Configuration

- Flexible Cable
- 2 Shield(s)

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|-------------|---------|--------------|
| Frequency Range | DC | | 10 | GHz |
| 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 | 0.01 | 0.1 | 1 | 5 | 10 | GHz |
| Attenuation, Typ | 3.8 | 11.5 | 30 | 79 | 133 | dB/100ft |
| | 12.47 | 37.73 | 98.43 | 259.19 | 436.35 | dB/100m |
| Input Power (CW), Max | 1,250 | 450 | 160 | 57 | | Watts |

Mechanical Specifications

| | |
|----------|--------------------------|
| Diameter | 0.118 in [3 mm] |
| Weight | 0.016 lbs/ft [0.02 Kg/m] |

Construction Specifications

| Description | Material and Plating | Diameter |
|-----------------|--|--------------------|
| Inner Conductor | Copper Clad Steel, Silver, 7 Strands | 0.02 in [0.51 mm] |
| Conductor Type | Stranded | |
| Dielectric | PTFE | 0.06 in [1.52 mm] |
| First Shield | Silver Plated Copper Braid 90% coverage | 0.078 in [1.98 mm] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG188 Coax Cable Double Shielded with White PTFE Jacket RG188-DS](#)

Flexible RG188 Coax Cable Double
Shielded with White PTFE Jacket

RF Cables Technical Data Sheet

RG188-DS

| | | |
|---------------|--|--------------------|
| Second Shield | Silver Plated Copper Braid 90% coverage | 0.096 in [2.44 mm] |
| Jacket | PTFE, White | 0.118 in [3 mm] |

Environmental Specifications

Temperature

Operating Range

-55 to +200 deg C

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

Plotted and Other Data

Notes:

Flexible RG188 Coax Cable Double Shielded with White PTFE 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.

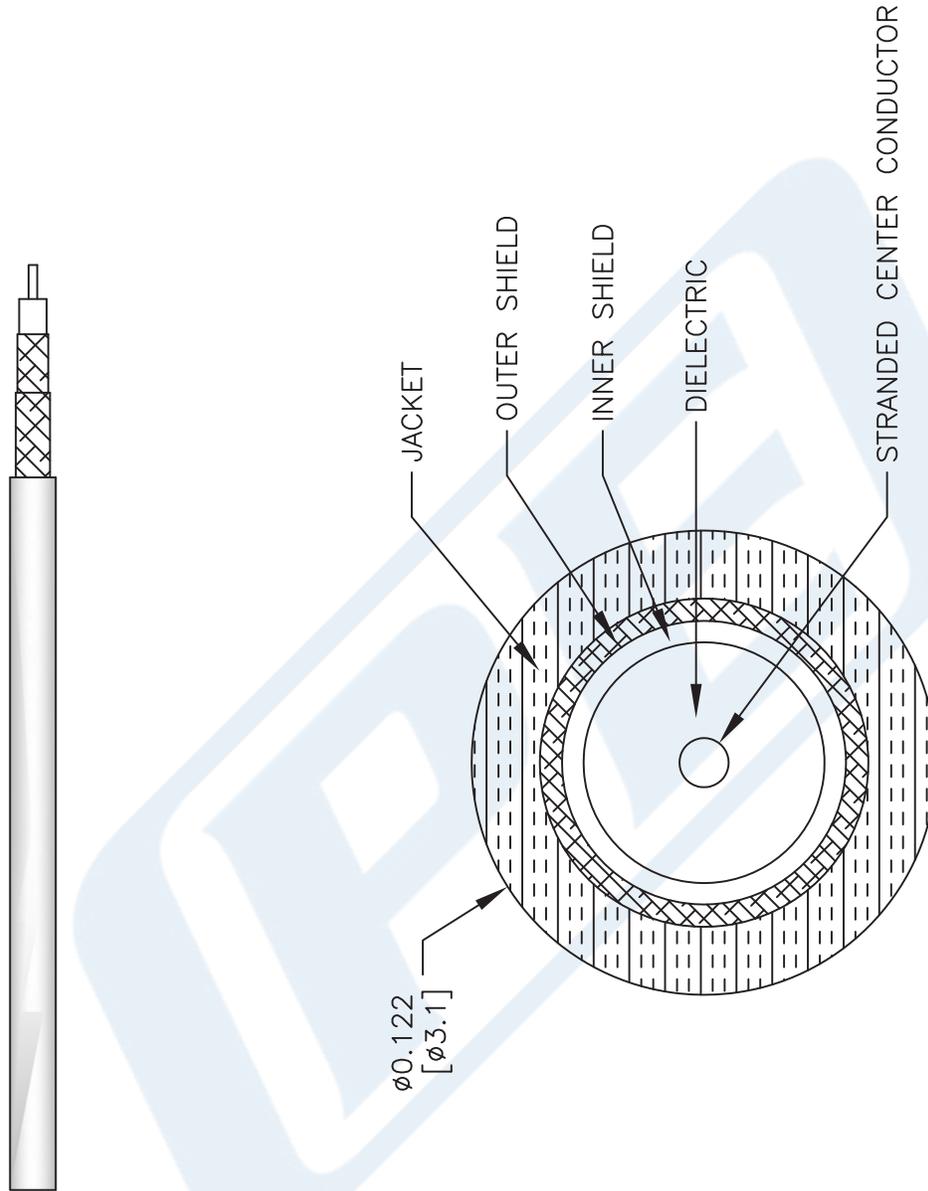
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG188 Coax Cable Double Shielded with White PTFE Jacket RG188-DS](#)

URL: <https://www.pasternack.com/flexible-0.122-rg188-ds-50-ohm-coax-cable-ptfe-jacket-rg188-ds-p.aspx>

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RG188-DS CAD Drawing

Flexible RG188 Coax Cable Double Shielded with White PTFE Jacket



DWG TITLE

RG188-DS

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CAGE CODE 53919

CAD FILE 062817

SCALE N/A

SIZE A

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