



SSMB Plug to SMA Male Cable Using RG188-DS Coax

RF Cable Assemblies Technical Data Sheet

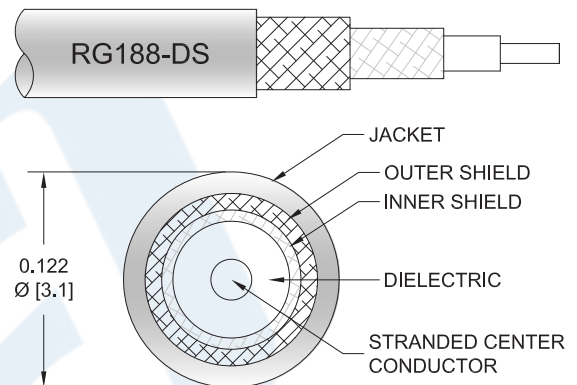
PE3W06717

Configuration

- Connector 1: SSMB Plug
- Connector 2: SMA Male
- Cable Type: RG188-DS

Features

- Max Frequency 6 GHz
- Double Shielded
- PTFE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W06717 SSMB plug to SMA male cable using RG188-DS coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack SSMB to SMA cable assembly has a plug to male gender configuration with 50 ohm flexible RG188-DS coax. The PE3W06717 SSMB plug to SMA male cable assembly operates to 6 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-----------------|---------|-------------|---------|--------------|
| Frequency Range | DC | | 6 | GHz |
| VSWR | | | 1.5:1 | |
| Capacitance | | 32 [104.99] | | pF/ft [pF/m] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SSMB Plug to SMA Male Cable Using RG188-DS Coax PE3W06717](#)



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Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency | 0.5 | 1 | 2 | 4 | 6 | GHz |
| Insertion Loss (Max.) | 0.16 | 0.3 | 0.35 | 0.59 | 0.84 | dB/ft |
| | 0.52 | 0.98 | 1.15 | 1.94 | 2.76 | dB/m |

Electrical Specification Notes:

Insertion Loss does not include the loss of connectors. Insertion Loss is estimated as 0.2dB of connector loss

Mechanical Specifications

Cable Assembly

Diameter 0.313 in [7.95 mm]

Cable

Cable Type RG188-DS
 Impedance 50 Ohms
 Inner Conductor Type Stranded
 Inner Conductor Material and Plating Copper Clad Steel, Silver
 Dielectric Type PTFE
 Number of Shields 2
 Shield Layer 1 Silver Plated Copper Braid
 Shield Layer 2 Silver Plated Copper Braid
 Jacket Material PTFE, White
 Jacket Diameter 0.118 in [3 mm]

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Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------------|------------------------|--------------------|
| Type | SSMB Plug | SMA Male |
| Specification | MIL-STD-348A | MIL-STD-348A |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Beryllium Copper, Gold | Brass, Gold |
| Contact Plating Specification | 30µ in. minimum | 50 µin minimum |
| Dielectric Type | Teflon | PTFE |
| Body Material and Plating | Beryllium Copper, Gold | Brass, Nickel |
| Body Plating Specification | 30µ in. minimum | 100 µin minimum |
| Coupling Nut Material and Plating | | Brass, Nickel |
| Coupling Nut Plating Specification | | 100 µin minimum |
| Hex Size | | 5/16 inch |
| Torque | | 3 in-lbs [0.34 Nm] |

Mechanical Specification Notes:

*All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.

Environmental Specifications

Temperature

Operating Range -55 to +165 deg C

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

Plotted and Other Data

Notes:

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PE3W06717

How to Order

Part Number Configuration:

PE3W06717

- **xx**

uu

Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: PE3W06717-12 = 12 inches long cable
PE3W06717-100cm = 100 cm long cable

SSMB Plug to SMA Male Cable Using RG188-DS Coax 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: [SSMB Plug to SMA Male Cable Using RG188-DS Coax PE3W06717](https://www.pasternack.com/ssmb-plug-sma-male-rg188-ds-cable-assembly-pe3w06717-p.aspx)

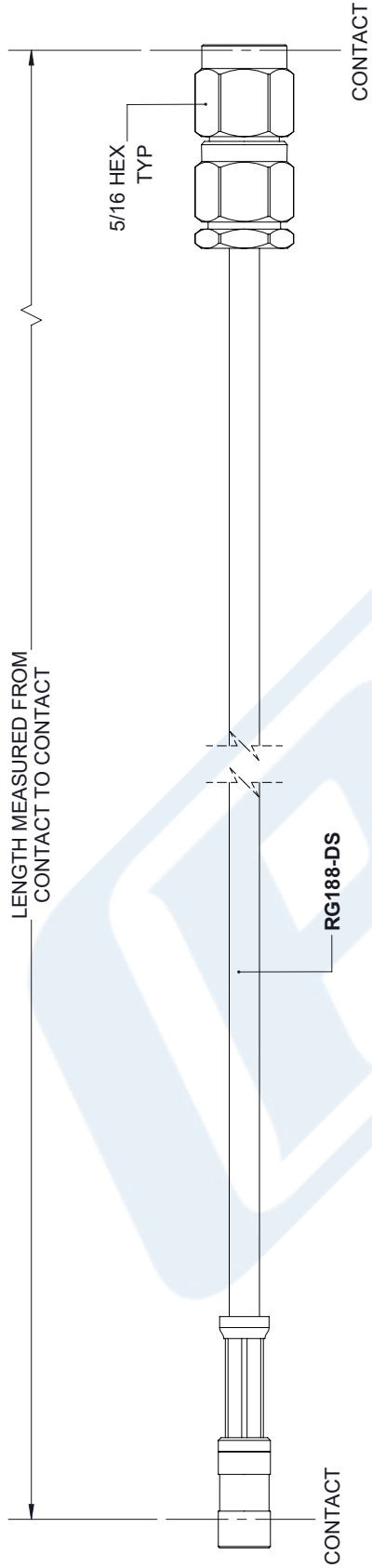
URL: <https://www.pasternack.com/ssmb-plug-sma-male-rg188-ds-cable-assembly-pe3w06717-p.aspx>

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PE3W06717 CAD Drawing

SSMB Plug to SMA Male Cable Using RG188-DS Coax

| REVISIONS | | |
|-----------|-----------------|----------|
| REV. | DESCRIPTION | DATE |
| A | INITIAL RELEASE | 05/10/19 |
| | | APPROVED |
| | | S. ELLIS |



SSMB PLUG

SMA MALE

| | |
|--|-----------------|
| UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS | |
| TOLERANCES: | |
| X±.2 [5.08] | FRACTIONS ±.132 |
| .XX±.01 [.25] | ANGLES ± 1° |
| .XXX±.005 [.13] | |
| ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. | |
| THIRD-ANGLE PROJECTION | |

PE PASTERNAK
an INFINITO brand

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SHEET 1 OF 1
SCALE N/A

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|------|-------|----------|-------------|-----|
| SIZE | CAGE | DRAWN BY | PART NUMBER | REV |
| A | 53919 | K.DANG | PE3W06717 | A |

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