

## SSMB Plug to SMA Male Cable 50 cm Length Using RG188-DS Coax



### RF Cable Assemblies Technical Data Sheet

PE3W06717-50CM

#### 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 PE3W06717-50CM SSMB plug to SMA male 50 cm 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 PE3W06717-50CM 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 50 cm Length Using RG188-DS Coax PE3W06717-50CM](#)



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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.) | 0.47 | 0.7 | 0.77 | 1.18 | 1.58 | dB    |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax use in this assembly. The Insertion Loss includes an estimated insertion loss of 0.2dB of connector Loss

#### Mechanical Specifications

##### Cable Assembly

|          |                      |
|----------|----------------------|
| Length*  | 19.68 in [499.87 mm] |
| 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  $\pm 3/8$ ", 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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## SSMB Plug to SMA Male Cable 50 cm Length Using RG188-DS Coax

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PE3W06717-50CM

#### 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 50 cm Length 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.

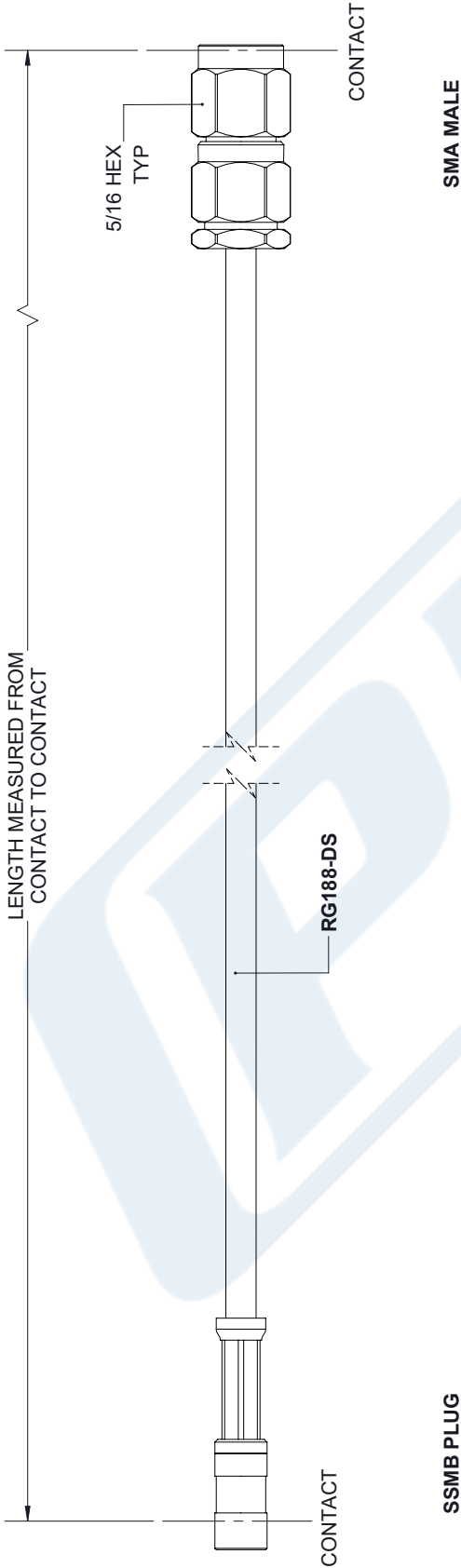
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SSMB Plug to SMA Male Cable 50 cm Length Using RG188-DS Coax PE3W06717-50CM](https://www.pasternack.com/ssmb-plug-sma-male-rg188-ds-cable-assembly-pe3w06717-50cm-p.aspx)

URL: <https://www.pasternack.com/ssmb-plug-sma-male-rg188-ds-cable-assembly-pe3w06717-50cm-p.aspx>

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PE3W06717-50CM CAD Drawing  
SSMB Plug to SMA Male Cable 50 cm Length Using RG188-DS Coax

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



|                                                                                                  |           |
|--------------------------------------------------------------------------------------------------|-----------|
| UNLESS OTHERWISE SPECIFIED<br>LEADING DIMENSIONS ARE INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS |           |
| TOLERANCES:                                                                                      | FRACTIONS |
| X±.2 [5.08]                                                                                      | ±.132     |
| .XX±.01 [.25]                                                                                    | ±.005     |
| .XXX±.005 [.13]                                                                                  | ±.001     |
| ALL DIMENSIONS SHOWN<br>ARE FOR REFERENCE ONLY.                                                  |           |
| THIRD-ANGLE PROJECTION                                                                           |           |

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

|                                                                                                                        |        |
|------------------------------------------------------------------------------------------------------------------------|--------|
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