



## SMA Male to Straight Cut Lead Cable 50 CM Length Using RG188-DS Coax

### RF Cable Assemblies Technical Data Sheet

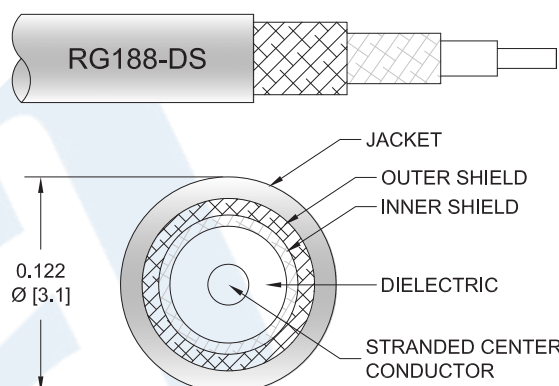
PE3C6848-50CM

#### Configuration

- Connector 1: SMA Male
- Connector 2: Straight Cut Lead
- Cable Type: RG188-DS

#### Features

- Max Frequency 10 GHz
- Double Shielded
- PTFE Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C6848-50CM 50 ohm SMA male to straight cut lead 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. The PE3C6848-50CM SMA male to straight cut lead cable assembly operates to 10 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      |             | 10      | GHz          |
| Capacitance     |         | 32 [104.99] |         | pF/ft [pF/m] |

#### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 0.5  | 1    | 2.5  | 5    | 10   | GHz   |
| Insertion Loss (Typ.) | 0.52 | 0.69 | 0.99 | 1.49 | 2.38 | dB    |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to Straight Cut Lead Cable 50 CM Length Using RG188-DS Coax PE3C6848-50CM](#)



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#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector

#### Mechanical Specifications

##### Cable Assembly

Length\* 19.68 in [499.87 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]

#### Connectors

| Description                        | Connector 1        | Connector 2       |
|------------------------------------|--------------------|-------------------|
| Type                               | SMA Male           | Straight Cut Lead |
| Specification                      | MIL-STD-348A       |                   |
| Impedance                          | 50 Ohms            | 0 Ohms            |
| Contact Material and Plating       | Brass, Gold        |                   |
| Contact Plating Specification      | 30 µin minimum     |                   |
| Dielectric Type                    | PTFE               |                   |
| Body Material and Plating          | Brass, Nickel      |                   |
| Body Plating Specification         | 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] |                   |

#### Environmental Specifications

##### Temperature

Operating Range -55 to +200 deg C

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PE3C6848-50CM

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

#### Plotted and Other Data

Notes:

#### How to Order

Part Number Configuration:

**PE3C6848**

**- xx**

**uu**

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

Example: PE3C6848-12 = 12 inches long cable  
PE3C6848-100cm = 100 cm long cable

SMA Male to Straight Cut Lead 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.

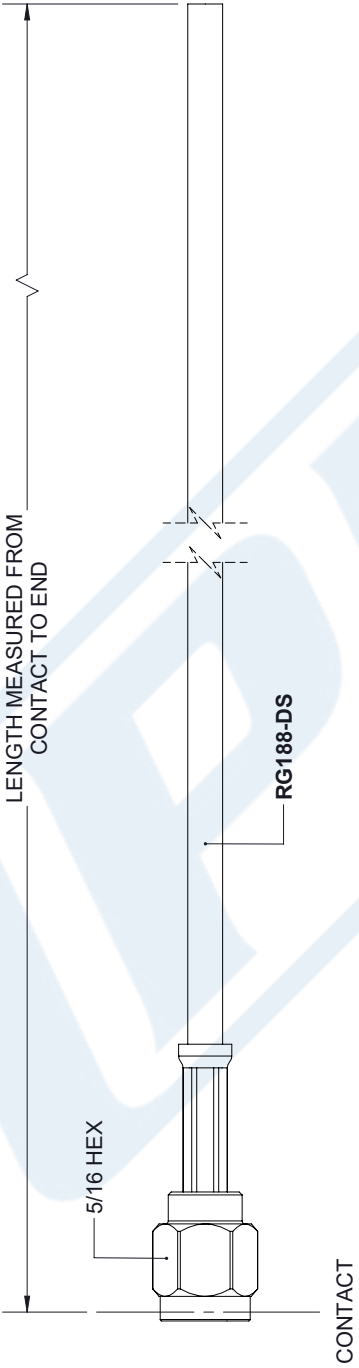
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to Straight Cut Lead Cable 50 CM Length Using RG188-DS Coax PE3C6848-50CM](#)

URL: <https://www.pasternack.com/sma-male-straight-cut-sexless-rg188-ds-cable-assembly-pe3c6848-50cm-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.

PE3C6848-50CM CAD Drawing  
SMA Male to Straight Cut Lead Cable 50 CM Length Using RG188-DS Coax

| REVISIONS |                 |           |          |
|-----------|-----------------|-----------|----------|
| REV.      | DESCRIPTION     | DATE      | APPROVED |
| A         | INITIAL RELEASE | 3/16/2020 | S ELLIS  |



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

TOLERANCES:

|               |         |             |
|---------------|---------|-------------|
| .X = ± .2     | [ .08 ] | FRACTIONS   |
| .XX = ± .02   | [ .51 ] | ± 1/32      |
| .XXX = ± .005 | [ .13 ] | ANGLES ± 1° |

CABLE LENGTH (L) TOLERANCES:

|                             |                 |
|-----------------------------|-----------------|
| L ≤ 12 [305]                | = +1 [25] / -0  |
| 12 [305] < L ≤ 60 [1524]    | = +2 [51] / -0  |
| 60 [1524] < L ≤ 120 [3048]  | = +4 [102] / -0 |
| 120 [3048] < L ≤ 300 [7620] | = +6 [152] / -0 |
| 300 [7620] < L =            | +5% L / -0      |

ALL DIMENSIONS SHOWN  
ARE FOR REFERENCE ONLY.

**PE PASTERNAK**  
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SHEET 1 OF 1

SCALE N/A

|      |           |          |          |
|------|-----------|----------|----------|
| SIZE | CAGE CODE | DRAWN BY | ITEM NO. |
| A    | 53919     | K.DANG   | PE3C6848 |
| REV  |           |          | A        |

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