PASTERNACK
an INFINITE brand

SSMB Plug to SMA Male Cable 100 cm Length Using RG188-DS Coax

RF Cable Assemblies Technical Data Sheet — PE3W06018-100CM

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

Features
- Max Frequency 6 GHz
- Double Shielded
- PTFE Jacket

RG188-DS

JACKET
OUTER SHIELD
INNER SHIELD
DIELECTRIC
STRANDED CENTER CONDUCTOR

0.122 Ø [3.1]

Applications
- General Purpose
- Laboratory Use

Description

Pasternack's PE3W06018-100CM SSMB plug to SMA male 100 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 PE3W06018-100CM 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 100 cm Length Using RG188-DS Coax PE3W06018-100CM

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com

SSMB Plug to SMA Male Cable 100 cm Length Using RG188-DS Coax

RF Cable Assemblies Technical Data Sheet   PE3W06018-100CM

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2	4	6	GHz
Insertion Loss (Max.)	0.74	1.19	1.35	2.15	2.96	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*   39.37 in [100 cm]
Diameter   0.315 in [8 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]

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 100 cm Length Using RG188-DS Coax PE3W06018-100CM

SSMB Plug to SMA Male Cable 100 cm Length Using RG188-DS Coax

RF Cable Assemblies Technical Data Sheet **PE3W06018-100CM**

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	30 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:

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 100 cm Length Using RG188-DS Coax PE3W06018-100CM

SSMB Plug to SMA Male Cable 100 cm
Length Using RG188-DS Coax

RF Cable Assemblies Technical Data Sheet   PE3W06018-100CM

How to Order

Part Number Configuration: **PE3W06018**   **- xx   uu**

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

Example: PE3W06018-12 = 12 inches long cable
PE3W06018-100cm = 100 cm long cable

SSMB Plug to SMA Male Cable 100 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.
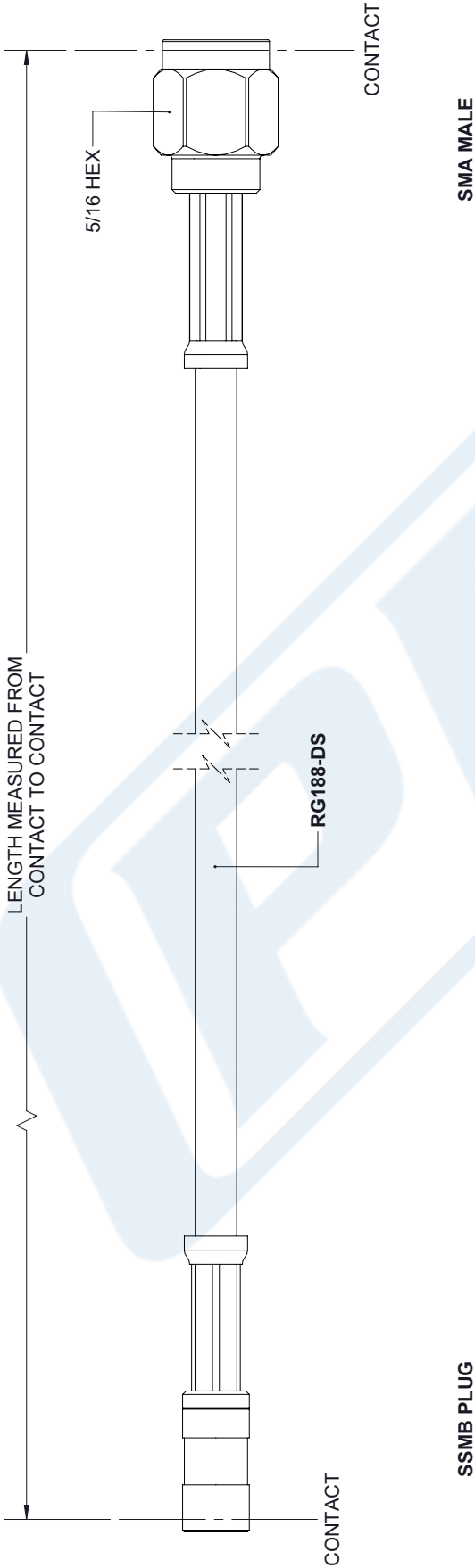
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SSMB Plug to SMA Male Cable 100 cm Length Using RG188-DS Coax PE3W06018-100CM

URL: https://www.pasternack.com/ssmb-plug-sma-male-rg188-ds-cable-assembly-pe3w06018-100cm-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.

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

© 2019 Pasternack Enterprises All Rights Reserved   PE3W06018-100CM REV 1.1   4

PE3W06018-100CM CAD Drawing
SSMB Plug to SMA Male Cable 100 cm Length Using RG188-DS Coax

CONTACT

5/16 HEX

SMA MALE

LENGTH MEASURED FROM CONTACT TO CONTACT

RG188-DS

SSMB PLUG

CONTACT

THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNACK CORPORATION. ALL RIGHTS RESERVED.

SHEET 1 OF 1

SCALE N/A

REV A

PART NUMBER PE3W06018

| SIZE A | CAGE 53919 | DRAWN BY K.DANG |

UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS
TOLERANCES:
X=± .2 [5.08]   FRACTIONS
XX=± .01 [.25]   ± 1/32
.XXX=± .005 [.13]   ANGLES ± 1°

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

T-Rev.B

PE3W06018-100CM REV 1.1