



SMA Male to SSMC Jack Cable Using RG316-DS Coax

RF Cable Assemblies Technical Data Sheet

PE3W04458

Configuration

- Connector 1: SMA Male
- Connector 2: SSMC Jack
- Cable Type: RG316-DS

Features

- Max Frequency 3 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket

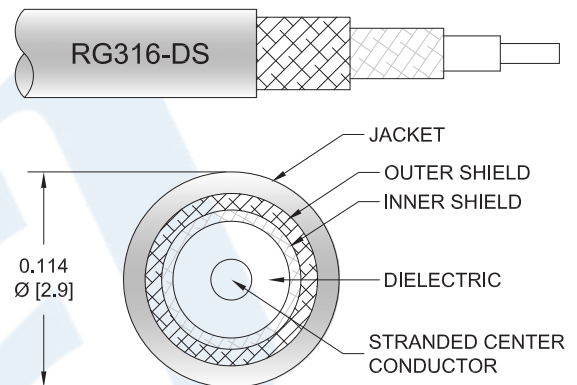
Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W04458 SMA male to SSMC jack cable using RG316-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 SMA to SSMC cable assembly has a male to jack gender configuration with 50 ohm flexible RG316-DS coax. The PE3W04458 SMA male to SSMC jack cable assembly operates to 3 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.



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 SSMC Jack Cable Using RG316-DS Coax PE3W04458](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.5:1	
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			250	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	3	GHz
Insertion Loss (Max.)	0.12	0.17	0.26	0.41	0.46	dB/ft
	0.39	0.56	0.85	1.35	1.51	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 0.315 in [8 mm]

Cable

Cable Type RG316-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 FEP, Tan
 Jacket Diameter 0.114 in [2.9 mm]
 Repeated Minimum Bend Radius 0.6 in [15.24 mm]

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SSMC Jack
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Mating Cycles		500
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	30 μ m minimum	MIL-G-45204
Dielectric Type	PTFE	Teflon
Outer Conductor Material and Plating		Beryllium Copper, Gold
Outer Conductor Plating Specification		MIL-G-45204
Body Material and Plating	Brass, Nickel	Beryllium Copper, Gold
Body Plating Specification	100 μ m minimum	MIL-G-45204
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100 μ m minimum	
Hex Size	5/16 inch	
Torque	3 in-lbs [0.34 Nm]	1.75 in-lbs [0.2 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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RF Cable Assemblies Technical Data Sheet

PE3W04458

How to Order

Part Number Configuration:

PE3W04458

- **xx**

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

Example: PE3W04458-12 = 12 inches long cable
PE3W04458-100cm = 100 cm long cable

SMA Male to SSMC Jack Cable Using RG316-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 SSMC Jack Cable Using RG316-DS Coax PE3W04458](https://www.pasternack.com/sma-male-ssmc-jack-rg316-ds-coax-pe3w04458)

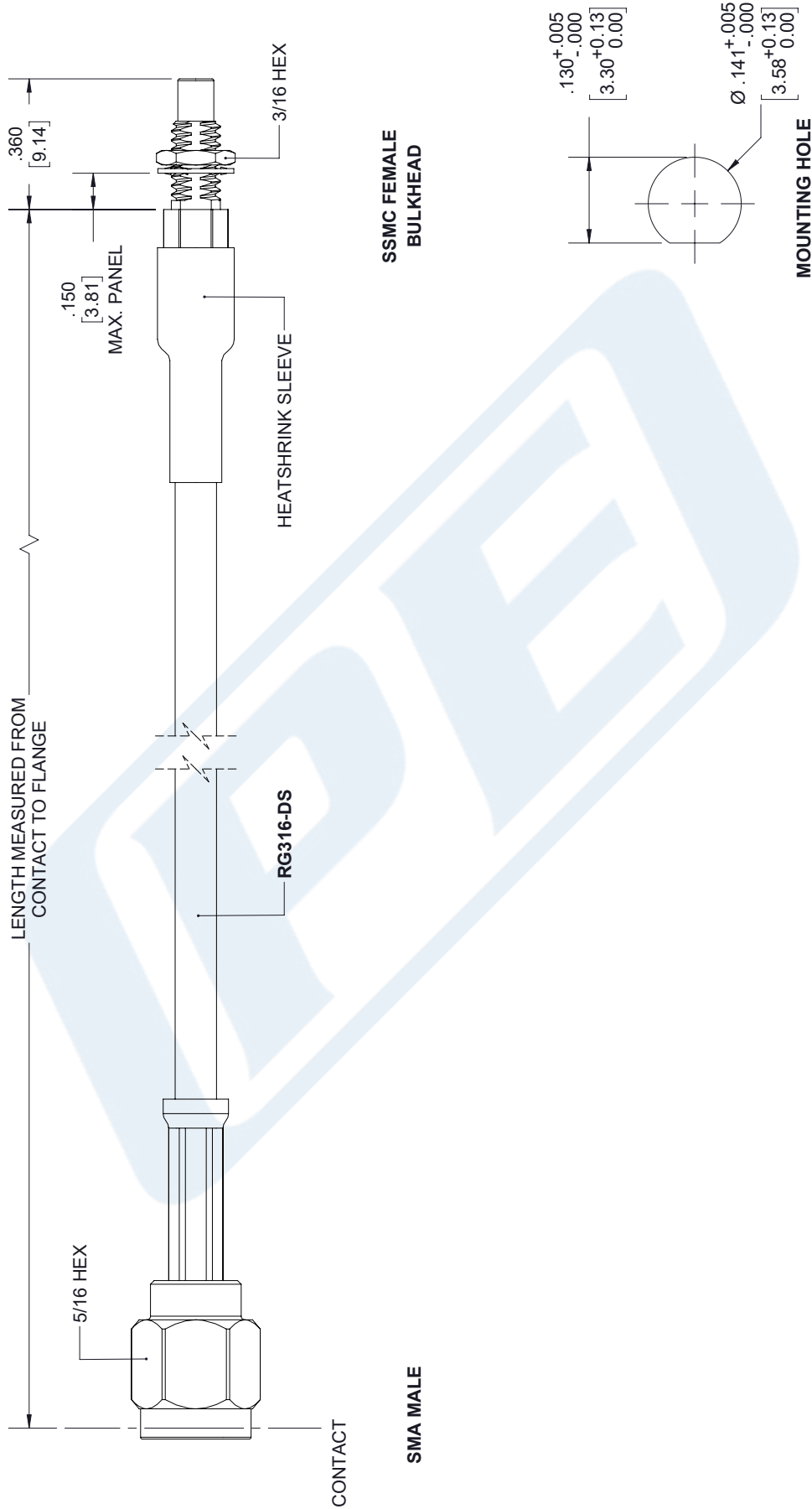
URL: <https://www.pasternack.com/sma-male-ssmc-jack-rg316-ds-cable-assembly-pe3w04458-p.aspx>

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PE3W04458 CAD Drawing

SMA Male to SSMC Jack Cable Using RG316-DS Coax

REVISIONS		
REV.	DESCRIPTION	DATE
B	PCR PE3W04458	10/22/19
		APPROVED S. ELLIS



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

CAGE NUMBER	DRAWN BY	PART NUMBER	REV
A	53919	K.DANG	PE3W04458
B			

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