PASTERNACK®
THE ENGINEER'S RF SOURCE

SMA Male to SSMC Plug Right Angle Cable
24 Inch Length Using RG316-DS Coax

RF Cable Assemblies Technical Data Sheet   PE3C4471-24

Configuration
- Connector 1: SMA Male
- Connector 2: SSMC Plug Right Angle
- Cable Type: RG316-DS

RG316-DS

JACKET
OUTER SHIELD
INNER SHIELD
DIELECTRIC
STRANDED CENTER CONDUCTOR

0.114
Ø [2.9]

Features
- SSMC Cable Assembly Max. Operating Frequency of 3 GHz
- Small SSMC cable connection form factor (50% smaller than SMA, radially)
- Reliable threaded coupling
- In stock and ready to ship

Applications
- SSMC Cable General Purpose Test
- Data Acquisition Systems
- A/D Conversion Systems
- Ultra Wideband Digital Receivers
- Software defined radio (SDR)

Description

Pasternack's SSMC cable assemblies are part of our full line of RF components available for same-day shipping. These SSMC cable assemblies are designed to connect SSMC system components and test connections, delivering signal frequencies as high as 12.4 GHz. Our family of SSMC cables can also be used to connect SSMC ports on data acquisition systems, A/D modules or SSMC coax patch panels. If none of our standard options fit your application, you can specify your own custom SSMC cable assembly using Pasternack's online Cable Creator.

Our SSMC cable assembly datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave cable assemblies allow designers to configure and customize their signal connections however they like. Whether the need is to provide SSMC cabling for a data acquisition system, or simply create a custom cable assembly configuration, Pasternack has the right cable assemblies for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same day.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.6:1	
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			250	Vrms

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 Plug Right Angle Cable 24 Inch Length Using RG316-DS Coax PE3C4471-24

ISO 9001 : 2008 Registered

SMA Male to SSMC Plug Right Angle Cable
24 Inch Length Using RG316-DS Coax

RF Cable Assemblies Technical Data Sheet   PE3C4471-24

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.4	1	3		GHz
Insertion Loss (Typ.)	0.36	0.53	0.73	1.14		dB

Mechanical Specifications

Cable Assembly

Length*	24 in [609.6 mm]
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]

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 Plug Right Angle Cable 24 Inch Length Using RG316-DS Coax PE3C4471-24

ISO 9001 : 2008 Registered

SMA Male to SSMC Plug Right Angle Cable
24 Inch Length Using RG316-DS Coax

RF Cable Assemblies Technical Data Sheet   PE3C4471-24

Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SSMC Plug Right Angle
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 µin minimum	MIL-G-45204
Dielectric Type	PTFE	Teflon
Body Material and Plating	Brass, Nickel	Brass, Gold
Body Plating Specification	100 µin minimum	MIL-G-45204
Coupling Nut Material and Plating	Brass, Nickel	Beryllium Copper, Gold
Coupling Nut Plating Specification	100 µin minimum	MIL-G-45204
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 ± 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: SMA Male to SSMC Plug Right Angle Cable 24 Inch Length Using RG316-DS Coax PE3C4471-24

ISO 9001 : 2008 Registered

RF Cable Assemblies Technical Data Sheet   PE3C4471-24

How to Order

Part Number Configuration: **PE3C4471**   **- xx**   **uu**

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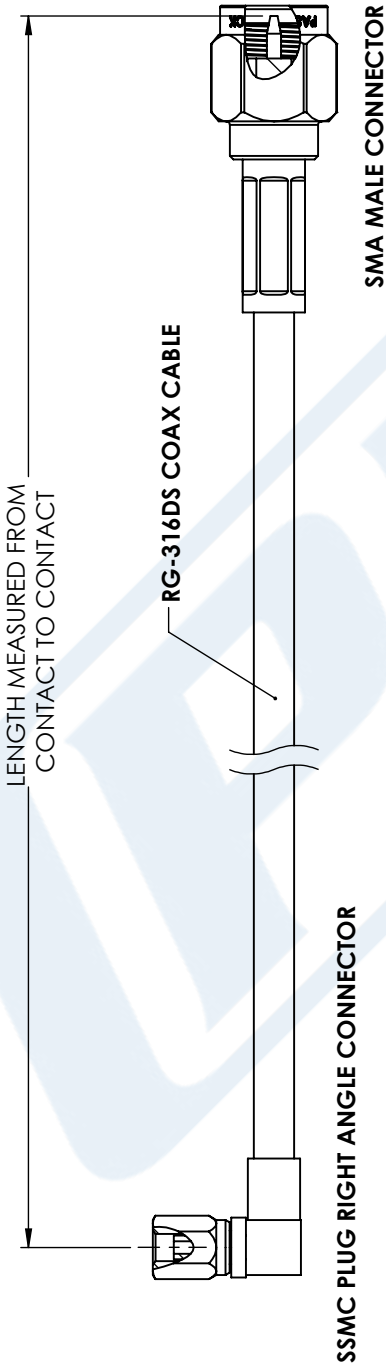Length
Base Number

Example: PE3C4471-12 = 12 inches long cable
             PE3C4471-100cm = 100 cm long cable

SMA Male to SSMC Plug Right Angle Cable 24 Inch Length 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 Plug Right Angle Cable 24 Inch Length Using RG316-DS Coax PE3C4471-24

URL: https://www.pasternack.com/sma-male-ssmc-plug-rg316-ds-cable-assembly-pe3c4471-24-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

ISO 9001 : 2008 Registered

© 2017 Pasternack Enterprises All Rights Reserved   PE3C4471-24 REV 1.0   4

PE3C4471-24 CAD Drawing
SMA Male to SSMC Plug Right Angle Cable 24 Inch Length Using RG316-DS Coax

SMA MALE CONNECTOR

RG-316DS COAX CABLE

LENGTH MEASURED FROM CONTACT TO CONTACT

SSMC PLUG RIGHT ANGLE CONNECTOR

STANDARD TOLERANCES
.X   ± 0.2
.XX   ± 0.01
.XXX   ± 0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

DWG TITLE		
PE3C4471		

CAGE CODE	53919	

CAD FILE	09/05/17	

SCALE	N/A	

SIZE	A	

CN2245

PASTERNACK®
THE ENGINEER'S RF SOURCE

Pasternack Enterprises, Inc.
P.O. Box 16759 | Irvine | CA | 92623

Phone: (949) 261-1920 | **Fax:** (949) 261-7451
E-Mail: sales@pasternack.com
Website: www.pasternack.com

PE3C4471-24 REV 1.0