



SMA Male to MCX Plug Right Angle Cable Using RG316-DS Coax

RF Cable Assemblies Technical Data Sheet

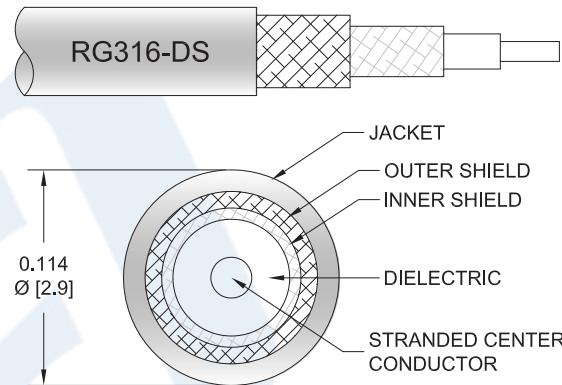
PE35437

Configuration

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

Features

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



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE35437 SMA male to MCX plug right angle 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 MCX cable assembly has a male to plug gender configuration with 50 ohm flexible RG316-DS coax. The PE35437 SMA male to MCX plug cable assembly operates to 3 GHz. The right angle MCX interface on the RG316-DS cable allows for easier connections in tight spaces. 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 MCX Plug Right Angle Cable Using RG316-DS Coax PE35437](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.082 0.27	0.128 0.42	0.194 0.64	0.29 0.95	0.535 1.76	dB

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as $0.1 * \text{SQRT}(F\text{GHz})$ dB per connector.

Mechanical Specifications
Cable Assembly

Length*	0 in [0 mm]
Weight	0.03 lbs [13.61 g]

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]

One Time Minimum Bend Radius	0.59 in [14.99 mm]
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Connectors

Description	Connector 1	Connector 2
Type	SMA Male	MCX Plug Right Angle
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	
Contact Plating Specification	30 μ in. minimum	
Dielectric Type	Teflon	
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 μ in. minimum	
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100 μ in. minimum	
Hex Size	5/16 in	
Torque	5 in-lbs [0.57 Nm]	

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

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

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How to Order

Part Number Configuration:



Example: PE35437-12 = 12 inches long cable
PE35437-100cm = 100 cm long cable

SMA Male to MCX Plug Right Angle 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 MCX Plug Right Angle Cable Using RG316-DS Coax PE35437](#)

URL: <https://www.pasternack.com/sma-male-to-mcx-plug-cable-using-rg316-ds-pe35437-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.

PE35437 CAD Drawing

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	11/10/2021	A. GANWANI

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

TOLERANCES:

$X = \pm .2$	$[5.08]$	FRACTIONS
$.XX = \pm .02$	$[.51]$	$\pm .1/32$
$XXX = \pm .005$	$[.13]$	ANGLES: $\pm 1^\circ$

CABLE LENGTH (L) TOLERANCES:

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

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

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SIZE A 53919 CAGE CODE N/A DRAWN BY K.DANG ITEM NO. PE35437 REV A