

SMA Male to SMB Plug Cable Using RG58 Coax



RF Cable Assemblies Technical Data Sheet

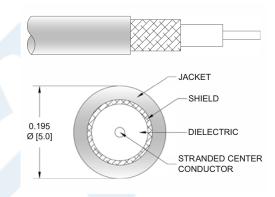
PE3172

Configuration

Connector 1: SMA MaleConnector 2: SMB PlugCable Type: RG58

Features

- Max Frequency 4 GHz
- 65.9% Phase Velocity
- PVC (NC) Jacket



Applications

· General Purpose

· Laboratory Use

Description

Pasternack's PE3172 SMA male to SMB plug cable using RG58 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 SMB cable assembly has a male to plug gender configuration with 50 ohm flexible RG58 coax. The PE3172 SMA male to SMB plug cable assembly operates to 4 GHz.

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 SMB Plug Cable Using RG58 Coax PE3172

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





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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	GHz
VSWR		7,55	1.4:1	
Velocity of Propagation		65.9		%
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Operating Voltage (AC)			335	Vrms

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	4	GHz
Insertion Loss (Typ.)	0.249	0.274	0.316	0.4	0.7	dB/ft
	0.82	0.9	1.04	1.31	2.3	dB/m
VSWR (Max.)	1.4:1	1.4:1	1.4:1	1.4:1	1.4:1	
Return Loss (Max.)	15.56	15.563	15.563	15.563	15.563	dB

Mechanical Specifications

Cable Assembly

Diameter 0.315 in [8 mm]

Cable

RG58 Cable Type 50 Ohms Impedance Inner Conductor Type Stranded Inner Conductor Material and Plating Copper, Tin Dielectric Type PΕ Number of Shields Shield Layer 1 **Tinned Copper Braid Jacket Material** PVC (NC), Black Jacket Diameter 0.195 in [4.95 mm]

One Time Minimum Bend Radius 0.98 in [24.89 mm]
Repeated Minimum Bend Radius 1.96 in [49.78 mm]

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Connectors

Description	Connector 1	Connector 2 SMB Plug MIL-STD-348A	
Туре	SMA Male		
Specification	MIL-STD-348A		
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gol	
Contact Plating Specification	50 μin minimum	30 μin minimum	
Dielectric Type	PTFE	PTFE	
Body Material and Plating	Brass, Nickel	Brass, Nickel	
Body Plating Specification	100 μin minimum	100 μin minimum	
Coupling Nut Material and Plating	Brass, Nickel		
Coupling Nut Plating Specification	100 μin minimum	minimum	
Hex Size	5/16 inch		
Torque	3 in-lbs [0.34 Nm]		

Environmental Specifications

Temperature

Operating Range -40 to +80 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

• Values at 25°C, sea level.

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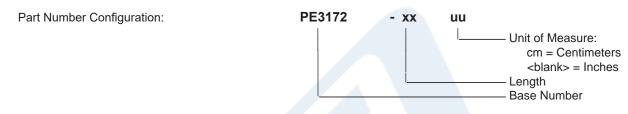
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How to Order



Example: PE3172-12 = 12 inches long cable

PE3172-100cm = 100 cm long cable

SMA Male to SMB Plug Cable Using RG58 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.

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URL: https://www.pasternack.com/sma-male-smb-plug-rg58cu-cable-assembly-pe3172-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.

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PE3172 CAD DrawingSMA Male to SMB Plug Cable Using RG58 Coax

