

SMA Male to MCX Plug Cable Using RG178 Coax

PE34530

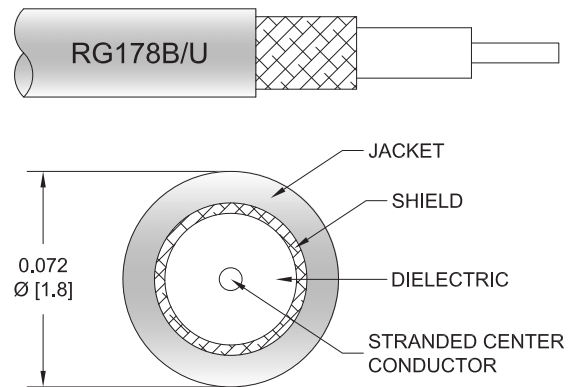


Configuration

- Connector 1: SMA Male
- Connector 2: MCX Plug
- Cable Type: RG178
- Coax Flex Type: Flexible

Features

- Max Frequency 1 GHz
- 69.5% Phase Velocity
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE34530 SMA male to MCX plug cable using RG178 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 RG178 coax. The PE34530 SMA male to MCX plug cable assembly operates to 1 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			250	Vrms

Specifications by Frequency

SMA Male to MCX Plug Cable Using RG178 Coax



PE34530

Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
		Frequency	100	250	500	1000	MHz	
PE34530	Custom Lengths Available	Insertion Loss (Typ.)	0.14	0.21	0.305	0.444	dB/ft	
			0.46	0.69	1.01	1.46	dB/m	
PE34530-6	6 inch	Insertion Loss (Typ.)	0.57	0.61	0.66	0.73	dB	0.027
PE34530-9	9 inch	Insertion Loss (Typ.)	0.61	0.66	0.73	0.84	dB	0.028
PE34530-12	12 inch	Insertion Loss (Typ.)	0.64	0.71	0.81	0.95	dB	0.029
PE34530-24	24 inch	Insertion Loss (Typ.)	0.78	0.92	1.11	1.39	dB	0.035
PE34530-36	36 inch	Insertion Loss (Typ.)	0.92	1.13	1.42	1.84	dB	0.04

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1:	0.1 dB
Loss due to Connector 2:	0.4 dB
Base Weight:	0.029 pounds
Additional Weight per Inch:	0.00042 pounds

Mechanical Specifications

Cable Assembly

Weight	0.029 lbs [13.15 g]
--------	---------------------

Cable

Cable Type	RG178
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	1
Shield Layer 1	Silver Plated Copper Braid
Jacket Material	FEP, Tan
Jacket Diameter	0.072 in [1.83 mm]
Repeated Minimum Bend Radius	0.393 in [9.98 mm]

SMA Male to MCX Plug Cable Using RG178 Coax

PE34530



Connectors

Description	Connector 1	Connector 2
Type	SMA Male	MCX Plug
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
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	2.5 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100 µin minimum	
Hex Size	5/16 in	
Torque	5 in-lbs 0.57 Nm	

Environmental Specifications

Operating Range Temperature -65 to +165 deg C

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

Plotted and Other Data

Notes:
Values at 25°C, sea level.

SMA Male to MCX Plug Cable Using RG178 Coax



PE34530

Typical Performance Data

How to Order

Part Number Configuration:

PE34530

- xx

uu

Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number

Example: PE34530-12 = 12 inches long cable
PE34530-100cm = 100 cm long cable

SMA Male to MCX Plug Cable Using RG178 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 Cable Using RG178 Coax PE34530](#)

URL: <https://www.pasternack.com/sma-male-to-mcx-plug-cable-using-rg178-pe34530-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE34530 CAD Drawing
SMA Male to MCX Plug Cable Using RG178 Coax

