

75 Ohm MCX Plug to 75 Ohm BNC Male Cable Using 75 Ohm RG179 Coax with HeatShrink



PE38533/HS

Configuration

- Connector 1: MCX Plug
- Connector 2: BNC Male
- Cable Type: RG179
- Coax Flex Type: Flexible

Features

- Max Frequency 1 GHz
- 70% Phase Velocity
- FEP Jacket

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE38533/HS 75 ohm MCX plug to 75 ohm BNC male cable using 75 ohm RG179 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 MCX to BNC cable assembly has a plug to male gender configuration with 75 ohm flexible RG179 coax. The PE38533/HS MCX plug to BNC male 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		70		%
Capacitance		19.4 [63.65]		pF/ft [pF/m]
Operating Voltage (AC)			250	V _{rms}

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
			Frequency	100	250	500	1000	
PE38533/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.09	0.137	0.203	0.3	dB/ft	
			0.3	0.45	0.67	0.99	dB/m	
PE38533/HS-12	12 inch	Insertion Loss (Typ.)	0.29	0.34	0.41	0.5	dB	0.045
PE38533/HS-24	24 inch	Insertion Loss (Typ.)	0.38	0.48	0.61	0.8	dB	0.054
PE38533/HS-36	36 inch	Insertion Loss (Typ.)	0.47	0.62	0.81	1.1	dB	0.063
PE38533/HS-48	48 inch	Insertion Loss (Typ.)	0.56	0.75	1.02	1.4	dB	0.072
PE38533/HS-72	72 inch	Insertion Loss (Typ.)	0.74	1.03	1.42	2	dB	0.09

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: 0.1 dB
 Base Weight: 0.045 pounds
 Additional Weight per Inch: 0.00075 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
 Weight 0.036 lbs [16.33 g]

Cable

Cable Type RG179
 Impedance 75 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 0.1 in [2.54 mm]
 Repeated Minimum Bend Radius 0.4 in [10.16 mm]

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Connectors

Description	Connector 1	Connector 2
Type	MCX Plug	BNC Male
Impedance	75 Ohms	75 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 µin minimum	30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold	Brass, Nickel
Body Plating Specification	3 µin minimum	100 µin minimum
Coupling Nut Material and Plating		Brass, Nickel
Coupling Nut Plating Specification		100 µin minimum

Environmental Specifications

Operating Range Temperature -55 to +155 deg C

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

Plotted and Other Data

Notes:

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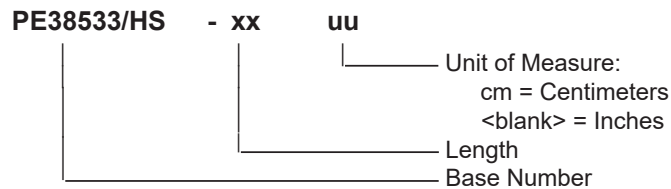


PE38533/HS

Typical Performance Data

How to Order

Part Number Configuration:



Example: PE38533/HS-12 = 12 inches long cable
PE38533/HS-100cm = 100 cm long cable

75 Ohm MCX Plug to 75 Ohm BNC Male Cable Using 75 Ohm RG179 Coax with HeatShrink 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.

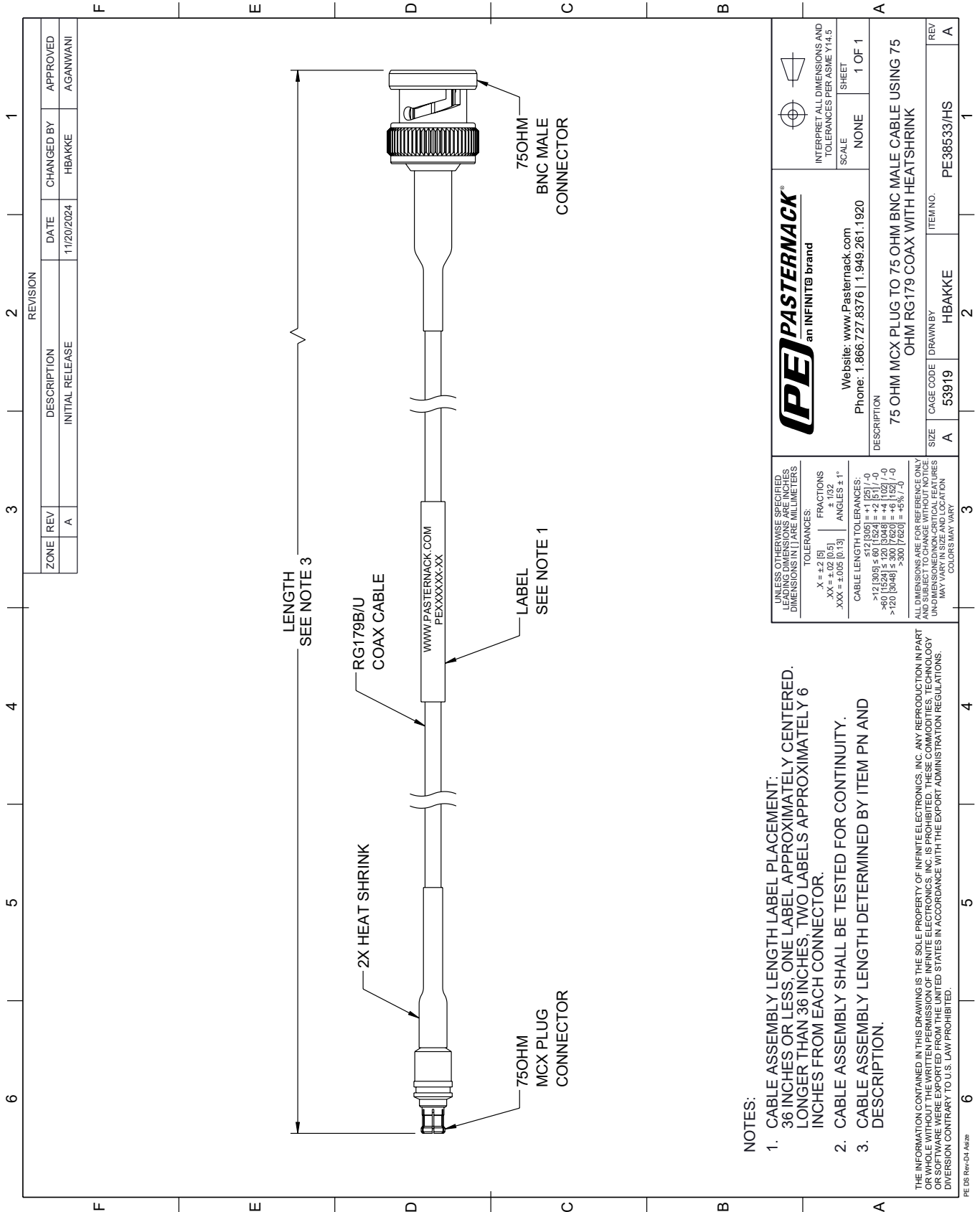
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [75 Ohm MCX Plug to 75 Ohm BNC Male Cable Using 75 Ohm RG179 Coax with HeatShrink PE38533/HS](#)

URL: <https://www.pasternack.com/75-ohm-mcx-plug-to-75-ohm-bnc-male-cable-using-rg179-with-heatshrink-pe38533-hs-p.aspx>

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PE38533/HS CAD Drawing

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NOTES:

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND TRAILING DIMENSIONS ARE IN MILLIMETERS	
TOLERANCES:	FRACTIONS
.X = ±.2 [5]	± 1/32
.XX = ±.02 [0.5]	± 1/64
.XXX = ±.005 [0.13]	ANGLES ± 1°
CABLE LENGTH TOLERANCES:	
>12 [305] ≤ 60 [1524] = ±.1 [2.5] / -0	
>60 [1524] ≤ 120 [3048] = ±.4 [102] / -0	
>120 [3048] ≤ 300 [7620] = ±.6 [15.2] / -0	
>300 [7620] = ±.8 [20.3] / -0	
ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE NON-CRITICAL FEATURES. MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.	

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE
SHEET: 1 OF 1

DESCRIPTION		ITEM NO.	
75 OHM MCX PLUG TO 75 OHM BNC MALE CABLE USING 75 OHM RG179 COAX WITH HEATSHRINK		PE38533/HS	
SIZE	CAGE CODE	DRAWN BY	REV
A	53919	HBAKKE	A