

## MMCX Plug to MMCX Plug Cable Using RG178 Coax with HeatShrink



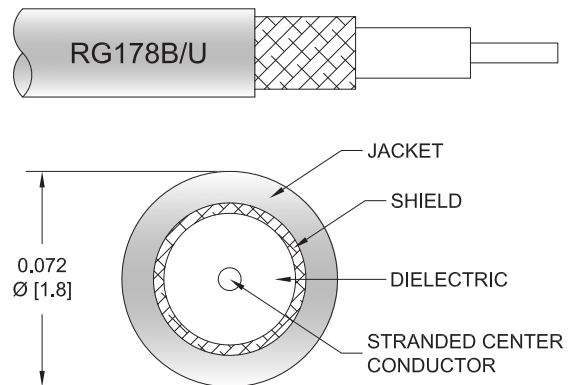
### PE34598/HS

#### Configuration

- Connector 1: MMCX Plug
- Connector 2: MMCX Plug
- Cable Type: RG178
- Coax Flex Type: Flexible

#### Features

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



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE34598/HS MMCX plug to MMCX 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 MMCX to MMCX cable assembly has a plug to plug gender configuration with 50 ohm flexible RG178 coax. The PE34598/HS MMCX plug to MMCX plug cable assembly operates to 3 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		3	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			170	Vrms

#### Specifications by Frequency

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### PE34598/HS

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	100	250	500	1000	3000	MHz	
PE34598/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.14	0.21	0.31	0.44	0.784	dB/ft	
			0.46	0.69	1.01	1.46	2.58	dB/m	
PE34598/HS-6	6 inch	Insertion Loss (Typ.)	0.27	0.31	0.36	0.43	0.6	dB	0.011
PE34598/HS-9	9 inch	Insertion Loss (Typ.)	0.31	0.36	0.43	0.54	0.79	dB	0.012
PE34598/HS-12	12 inch	Insertion Loss (Typ.)	0.34	0.41	0.51	0.65	0.99	dB	0.013
PE34598/HS-24	24 inch	Insertion Loss (Typ.)	0.48	0.62	0.82	1.09	1.77	dB	0.019
PE34598/HS-36	36 inch	Insertion Loss (Typ.)	0.62	0.83	1.12	1.54	2.56	dB	0.024

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:	0.013 pounds
Additional Weight per Inch:	0.00042 pounds

## Mechanical Specifications

### Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.012 lbs [5.44 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	0.4 in [10.16 mm]

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### PE34598/HS

#### Connectors

Description	Connector 1	Connector 2
Type	MMCX Plug	MMCX Plug
Specification	BS EN 122340	BS EN 122340
Impedance	50 Ohms	50 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, Gold
Body Plating Specification	3 µin minimum	3 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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### PE34598/HS

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE34598/HS - xx uu**

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

Length

Base Number

Example: PE34598/HS-12 = 12 inches long cable  
PE34598/HS-100cm = 100 cm long cable

MMCX Plug to MMCX Plug Cable Using RG178 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.

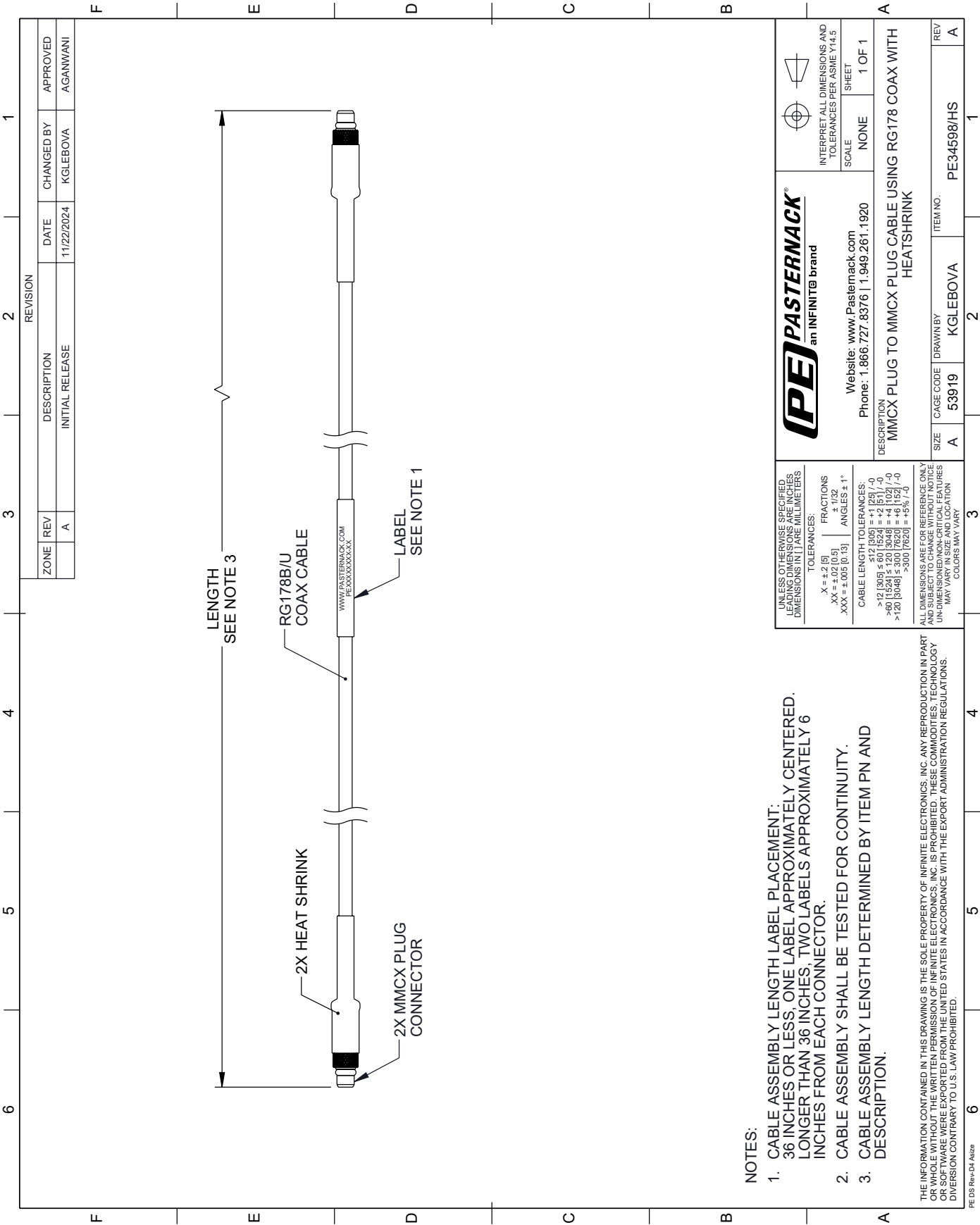
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MMCX Plug to MMCX Plug Cable Using RG178 Coax with HeatShrink PE34598/HS](#)

URL: <https://www.pasternack.com/mmcx-plug-to-mmcx-plug-cable-using-rg178-with-heatshrink-pe34598-hs-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.

PE34598/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.