

Snap-On MMBX Plug Right Angle to MCX Plug Cable Using RG178 Coax with HeatShrink



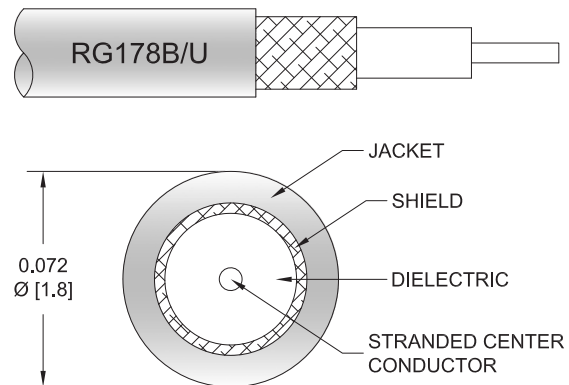
PE3W20290/HS

Configuration

- Connector 1: Snap-On MMBX Plug Right Angle
- Connector 2: MCX 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 PE3W20290/HS MMBX plug snap-on right angle 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 MMBX to MCX cable assembly has a plug to plug gender configuration with 50 ohm flexible RG178 coax. The PE3W20290/HS MMBX plug to MCX plug cable assembly operates to 3 GHz. The right angle MMBX interface on the RG178 cable allows for easier connections in tight spaces.

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]

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		100	250	500	1000	
PE3W20290/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.138	0.208	0.305	0.444	0.784	dB/ft	
			0.46	0.69	1.01	1.46	2.58	dB/m	
PE3W20290/HS-6	6 In	Insertion Loss (Typ.)	0.78	0.82	0.87	0.94	1.11	dB	0.012
PE3W20290/HS-9	9 In	Insertion Loss (Typ.)	0.82	0.87	0.94	1.05	1.3	dB	0.013
PE3W20290/HS-12	12 In	Insertion Loss (Typ.)	0.85	0.92	1.02	1.16	1.5	dB	0.014
PE3W20290/HS-24	24 In	Insertion Loss (Typ.)	0.99	1.13	1.32	1.6	2.28	dB	0.02
PE3W20290/HS-36	36 In	Insertion Loss (Typ.)	1.13	1.34	1.63	2.05	3.07	dB	0.025

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:	0.31 dB
Loss due to Connector 2:	0.4 dB
Base Weight:	0.014 pounds
Additional Weight per Inch:	0.00041 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.091 lbs [41.28 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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Connectors

Description	Connector 1	Connector 2
Type	MMBX Plug Right Angle	MCX Plug
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Connection Method	Snap-On	
Mating Cycles	100	500
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Specification		30 µin minimum
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Brass, Gold	
Body Material and Plating	Brass, Gold	Brass, Nickel
Body Plating Specification		2.5 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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PE3W20290/HS

Typical Performance Data

How to Order

Part Number Configuration:

PE3W20290/HS - xx uu



Example: PE3W20290/HS-12 = 12 inches long cable
PE3W20290/HS-100cm = 100 cm long cable

Snap-On MMBX Plug Right Angle to MCX 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: [Snap-On MMBX Plug Right Angle to MCX Plug Cable Using RG178 Coax with HeatShrink PE3W20290/HS](https://www.pasternack.com/snap-on-mmbx-plug-right-angle-to-mcx-plug-cable-using-rg178-with-heatshrink-pe3w20290-hs-p.aspx)

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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.

PE3W20290/HS CAD Drawing

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