



MMCX Plug to SSMB Jack Cable Using RG178 Coax

RF Cable Assemblies Technical Data Sheet

PE3W10201

Configuration

- Connector 1: MMCX Plug
- Connector 2: SSMB Jack
- Cable Type: RG178

Features

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

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W10201 MMCX plug to SSMB jack 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 SSMB cable assembly has a plug to jack gender configuration with 50 ohm flexible RG178 coax. The PE3W10201 MMCX plug to SSMB jack 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.

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 SSMB Jack Cable Using RG178 Coax PE3W10201](#)



MMCX Plug to SSMB Jack Cable Using RG178 Coax

RF Cable Assemblies Technical Data Sheet

PE3W10201

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

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.138	0.208	0.306	0.444	0.784	dB/ft
	0.45	0.68	1	1.46	2.57	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the straight connector.

Mechanical Specifications

Cable Assembly

Weight 0.017 lbs [7.71 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]

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 SSMB Jack Cable Using RG178 Coax PE3W10201](#)



MMCX Plug to SSMB Jack Cable Using RG178 Coax

RF Cable Assemblies Technical Data Sheet

PE3W10201

Connectors

Description	Connector 1	Connector 2
Type	MMCX Plug	SSMB Jack
Specification	BS EN 122340	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	30 µin minimum	30 µin minimum
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Beryllium Copper, Gold
Outer Conductor Plating Specification		3 µin minimum
Body Material and Plating	Brass, Gold	Brass, Gold
Body Plating Specification	3 µin minimum	3 µin minimum

Environmental Specifications

Temperature

Operating Range -55 to +155 deg C

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

Plotted and Other Data

Notes:

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 SSMB Jack Cable Using RG178 Coax PE3W10201](#)



MMCX Plug to SSMB Jack Cable Using RG178 Coax

RF Cable Assemblies Technical Data Sheet

PE3W10201

How to Order

Part Number Configuration:

PE3W10201

- **xx**

uu

Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: PE3W10201-12 = 12 inches long cable
PE3W10201-100cm = 100 cm long cable

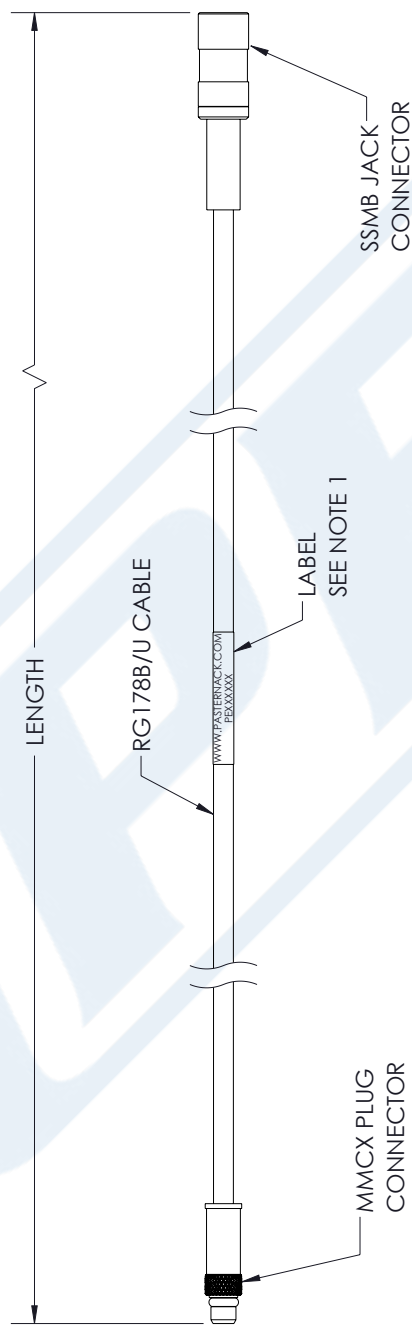
MMCX Plug to SSMB Jack Cable Using RG178 Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MMCX Plug to SSMB Jack Cable Using RG178 Coax PE3W10201](https://www.pasternack.com/mmcx-plug-to-ssmb-jack-cable-using-rg178-pe3w10201-p.aspx)

URL: <https://www.pasternack.com/mmcx-plug-to-ssmb-jack-cable-using-rg178-pe3w10201-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.

PE3W10201 CAD Drawing



- 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 ASSEMBLIES SHALL BE TESTED FOR CONTINUITY

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN WHOLE OR PART WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED.

ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
	A	INITIAL RELEASE	12/14/2022		AGANWANI

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS			 PASTERNAK® an INFINITT® brand			
TOLERANCES:			INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5		SCALE	SHEET
.X = ± .2 [.5] FRACTIONS .XX = ± .02 [.5] ± 1/32 XXX = ± .005 [.13] ANGLES ± 1°			Website: www.Pasternack.com		NONE	1 OF 1
CABLE LENGTH TOLERANCES:			Phone: 1.866.727.8376 1.949.261.1920			
			DESCRIPTION			
			MMCX Plug to SSMB Jack Cable Using RG178 Coax			
SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV		
A	53919	BPUCHASKI		PE3W10201	A	
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.						