



MMCX Plug to SMC Plug Cable 100 cm Length Using RG178 Coax

RF Cable Assemblies Technical Data Sheet

PE3W07653-100CM

Configuration

- Connector 1: MMCX Plug
- Connector 2: SMC Plug
- Cable Type: RG178

Features

- 70% Phase Velocity
- FEP Jacket

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W07653-100CM MMCX plug to SMC plug 100 cm 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 SMC cable assembly has a plug to plug gender configuration with 50 ohm flexible RG178 coax.

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
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]

Mechanical Specifications

Cable Assembly

Length*	39.37 in [100 cm]
Diameter	0.25 in [6.35 mm]

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

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 SMC Plug Cable 100 cm Length Using RG178 Coax PE3W07653-100CM](#)



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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]

Connectors

Description	Connector 1	Connector 2
Type	MMCX Plug	SMC Plug
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Gold	Beryllium Copper, Gold
Contact Plating Specification		30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold	Brass, Nickel
Body Plating Specification		100 µin minimum
Coupling Nut Material and Plating		Brass, Nickel
Coupling Nut Plating Specification		100 µin minimum
Hex Size		1/4 inch

Mechanical Specification Notes:

*All cable assemblies have a length tolerance of 1.5% or $\pm 3/8"$, whichever is greater.

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

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:

PE3W07653

- **xx**

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

Example: PE3W07653-12 = 12 inches long cable
PE3W07653-100cm = 100 cm long cable

MMCX Plug to SMC Plug Cable 100 cm Length 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.

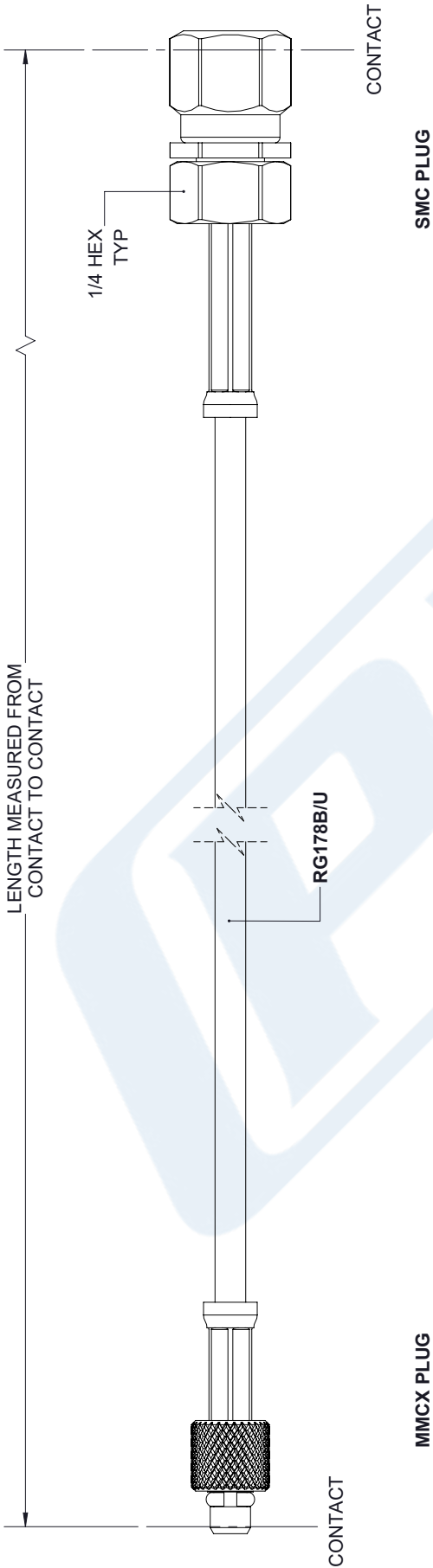
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MMCX Plug to SMC Plug Cable 100 cm Length Using RG178 Coax PE3W07653-100CM](https://www.pasternack.com/mmex-plug-smc-plug-rg178bu-cable-assembly-pe3w07653-100cm-p.aspx)

URL: <https://www.pasternack.com/mmex-plug-smc-plug-rg178bu-cable-assembly-pe3w07653-100cm-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.

PE3W07653-100CM CAD Drawing
MMCX Plug to SMC Plug Cable 100 cm Length Using RG178 Coax

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	04/30/19	SELLIS



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS			
TOLERANCES:			
X±.2	[5.08]	FRACTIONS	
.XX±.01	[.25]		±.132
.XXX±.005	[.13]	ANGLES ± 1°	
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.			
THIRD-ANGLE PROJECTION			

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SIZE	CAGE	DRAWN BY	PART NUMBER
A	53919	K.DANG	PE3W07653

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