



WMCX 1.6 Plug to WMCX 1.6 Plug Cable Using 0.81mm Coax, RoHS

TECHNICAL DATA SHEET

PE3CA1057

Pasternack's WMCX 1.6 series ultra-miniature coaxial cable assemblies (also called 1.6mm WMCX) have a mated connection height of only 1.6mm. They are constructed using a flexible micro-coax cable and are compatible with products such as Hirose W.FL and IPEX MHFIII. Our WMCX 1.6 plug connectors are comparable in design to the Hirose W.FL connectors and the IPEX MHFIII series connectors. Pasternack also provided three additional connector options for our in-series 0.81mm micro-coax jumper cables including UMCX 2.1, WMCX 1.6 and HMCX32 1.2 connectors.

These small form factor, flexible micro-coax jumper cables provide a low profile RF connection perfect for board-to-board connectivity such as mini-PCI circuit boards. With performance up to 6 GHz, these WMCX jumper cables are ideal for wireless applications including Wi-Fi, Bluetooth, GPS, ZigBee, LTE and many others. Our WMCX 1.6 cable assemblies are available from stock in standard lengths, and custom lengths are available upon request. Standard length WMCX 1.6 cables ship same day they are ordered.

Features

- 1.6mm mated assembly height
- Operate from DC to 6 GHz
- 100% RF and Continuity tested

- Compatible with Hirose W.FL and IPEX MHFIII products
- Small foot print with easy snap on/off mating

Applications

- Wireless LAN, Mini PCI
- Mobile Antenna/GPS/Radio Systems
- PDA/PCS/Cellular Handset applications
- Wireless Communications systems (LAN, GSM, PCS, WCDMA, UMTS)

Configuration

Connector 1 Connector 2 Cable Type WMCX 1.6 Plug WMCX 1.6 Plug 0.81mm

Electrical Specifications

Frequency Range Impedance Max VSWR DC to 6 GHz 50 Ohms 1.55:1

250 MHz

1.4:1

Performance by Frequency

Frequency 1

Frequency
VSWR
Return Loss
Insertion Loss

15.56 dB 0.25 dB/ft [0.82 dB/m]

Frequency 2

 Frequency
 500 MHz

 VSWR
 1.4:1

 Return Loss
 15.56 dB

Insertion Loss 0.48 dB/ft [1.57 dB/m]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WMCX 1.6 Plug to WMCX 1.6 Plug Cable Using 0.81mm Coax, RoHS PE3CA1057



ISO 9001 : 2008 Registered

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Frequency 3

Frequency 1000 MHz **VSWR** 1.4:1 Return Loss 15.56 dB

0.95 dB/ft [3.12 dB/m] Insertion Loss

Frequency 4

Frequency 2.5 GHz **VSWR** 1.4:1 Return Loss 15.56 dB

Insertion Loss 1.6 dB/ft [5.25 dB/m]

Frequency 5

Frequency 6 GHz **VSWR** 1.55:1 Return Loss 13.32 dB

2.59 dB/ft [8.5 dB/m] Insertion Loss

Mechanical Specifications

Temperature

Temperature Operating Range -55 to +125 deg C

Size

Cable

Cable Type 0.81mm Inner Conductor Type Stranded Cable Inner Conductor Copper, Silver

No of Shields

Cable Outer Conductor **Tinned Copper**

FEP Dielectric Type **FEP Jacket Material**

Jacket Diameter 0.032 in [0.81 mm]

Connector 1

Type WMCX 1.6 Plug

Configuration Straight

Connector 2

WMCX 1.6 Plug Type

Configuration Straight

Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant Yes

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Plotted and Other Data

Notes:

• Values at +25 °C, sea level

How to Order

Part Number Configuration:

PE3CA1057
- xx uu

Unit of Measure:
cm = Centimeters

Length
Base Number

Example: PE3CA1057-12 = 12 inches long cable PE3CA1057-100cm = 100 cm long cable

WMCX 1.6 Plug to WMCX 1.6 Plug Cable Using 0.81mm Coax, RoHS from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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URL: http://www.pasternack.com/wmcx-1.6-plug-wmcx-1.6-plug-0.81mm-cable-assembly-pe3ca1057-p.aspx

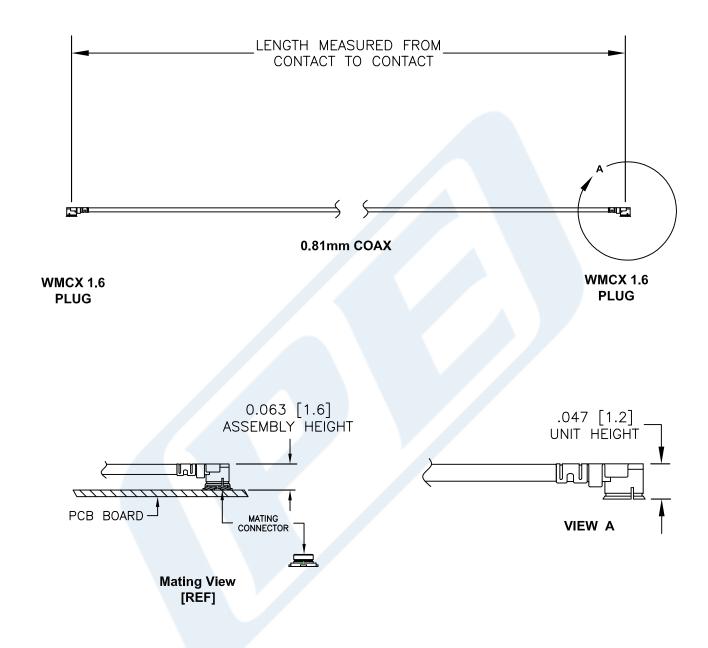
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such 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.



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PE3CA1057 CAD Drawing

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UMCX connectors are similar to U.FL*
*U.FL is a Registered Trademark of
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