



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

TECHNICAL DATA SHEET

PE3CA1029

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 ultra-miniature products from companies such as Hirose and IPEX cable manufactures. Our WMCX 1.6 plug connectors are comparable in design to the Hirose W.FL series of connectors and the IPEX MHFIII series connectors. Pasternack also provides three additional connector options for our between-series 0.81mm micro-coax jumper cables including UMCX 2.5, WMCX 1.6 and HMCX32 1.2 low profile connectors with differing form factors and mated heights.

Our WMCX 1.6 between series cables can be ordered with Female Bulkhead versions of SMA, Reverse Polarity SMA and Type N connectors as well as an SMA Male option. These cables provide a convenient connector interface for applications that require and RF signal to be routed to an external RF component such as an antenna or to provide a test point for the RF printed circuit board. These W.FL and MHFIII compatible 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 the same day they are ordered.

Features

- 1.6mm mated assembly height
- Operate from DC to 6GHz
- · 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 SMA Male WMCX 1.6 Plug 0.81mm

Electrical Specifications

Frequency Range Impedance Max VSWR DC to 6 GHz 50 Ohms 1.5:1

Performance by Frequency

Frequency 1

Frequency VSWR Return Loss Insertion Loss 250 MHz 1.35:1 16.54 dB

0.55 dB/ft [1.80 dB/m]

Frequency 2

Frequency 500 MHz VSWR 1.35:1 Return Loss 16.54 dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Male to WMCX 1.6 Plug Cable Using 0.81mm Coax, RoHS PE3CA1029

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Insertion Loss 0.78 dB/ft [2.56 dB/m]

Frequency 3

Frequency 1000 MHz VSWR 1.35:1 Return Loss 16.54 dB

Insertion Loss 1.25 dB/ft [4.1 dB/m]

Frequency 4

Frequency 2.5 GHz VSWR 1.35:1 Return Loss 16.54 dB

Insertion Loss 1.9 dB/ft [6.23 dB/m]

Frequency 5

Frequency 6 GHz VSWR 1.5:1 Return Loss 13.98 dB

Insertion Loss 2.89 dB/ft [9.48 dB/m]

Mechanical Specifications

Temperature

Temperature Operating Range -55 to +125 deg C

Size

Cable

Cable Type0.81mmInner Conductor TypeStrandedCable Inner ConductorCopper, Silver

No of Shields

Cable Outer Conductor 1 Tinned Copper

Dielectric Type FEP Jacket Material FEP

Jacket Diameter 0.032 in [0.81 mm]

Connector 1

Type SMA Male
Configuration Straight
Inner Conductor Material and Plating Brass, Gold
Coupling Nut Material and Plating Brass, Gold
Body Material and Plating Brass, Gold

Connector 2

Type WMCX 1.6 Plug

Configuration Straight

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

RoHS Compliant REACH Compliant

res 12/19/2011

Plotted and Other Data

Notes:

Values at +25 °C, sea level

How to Order

Example: PE3CA1029-12 = 12 inches long cable

PE3CA1029-100cm = 100 cm long cable

SMA Male 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/sma-male-wmcx-1.6-plug-0.81mm-cable-assembly-pe3ca1029-p.aspx

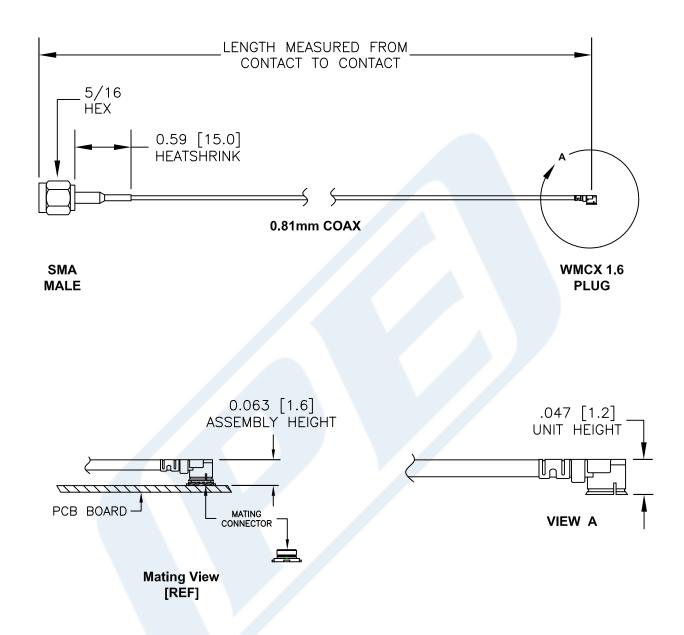
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such 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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PE3CA1029 CAD Drawing

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