

# SMA Female Bulkhead to WMCX 1.6 Plug Cable 12 Inch Length Using 0.81mm Coax, RoHS



# TECHNICAL DATA SHEET

# PE3CA1006-12

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 Female Bulkhead 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
 250 MHz

 VSWR
 1.35:1

 Return Loss
 16.54 dB

 Insertion Loss
 0.55 dB

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 Female Bulkhead to WMCX 1.6 Plug Cable 12 Inch Length Using 0.81mm Coax, RoHS PE3CA1006-12

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ISO 9001 : 2008 Registered

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Insertion Loss	0.78 dB
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Frequency 3

Frequency 1000 MHz VSWR 1.35:1 Return Loss 16.54 dB Insertion Loss 1.25 dB

Frequency 4

 Frequency
 2.5 GHz

 VSWR
 1.35:1

 Return Loss
 16.54 dB

 Insertion Loss
 1.9 dB

Frequency 5

Frequency 6 GHz
VSWR 1.5:1
Return Loss 13.98 dB
Insertion Loss 2.89 dB

# **Mechanical Specifications**

Temperature

Temperature Operating Range -55 to +125 deg C

Size

Length 12 in [304.8 mm]

Cable

Cable Type0.81mmInner Conductor TypeStrandedCable Inner ConductorCopper, SilverNo of Shields1Cable Outer Conductor 1Tinned Copper

Dielectric Type FEP

Jacket Material FEP
Jacket Diameter 0.032 in [0.81 mm]

Connector 1

Type SMA Female Bulkhead

Configuration Straight Mount Method Bulkhead

Inner Conductor Material and Plating Beryllium Copper, Gold

Body Material and Plating Brass, Gold

Connector 2

Type WMCX 1.6 Plug

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Configuration Straight

Compliance Certifications (visit www.Pasternack.com for current document)
RoHS Compliant
Yes
REACH Compliant
12/19/2011

### Plotted and Other Data

Notes:

Values at +25 °C, sea level

### **How to Order**

Part Number Configuration:

PE3CA1006 - xx uu

Unit of Measure:
cm = Centimeters
<br/>
<br/>
<br/>
chlank> = Inches
Length
Base Number

Example: PE3CA1006-12 = 12 inches long cable

PE3CA1006-100cm = 100 cm long cable

SMA Female Bulkhead to WMCX 1.6 Plug Cable 12 Inch Length 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-female-wmcx-1.6-plug-0.81mm-cable-assembly-pe3ca1006-12-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.



# PE3CA1006-12 CAD Drawing

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