

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



TECHNICAL DATA SHEET

PE3CA1006

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/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 Female Bulkhead to WMCX 1.6 Plug Cable Using 0.81mm Coax, RoHS PE3CA1006

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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

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

Frequency 4

Frequency 2.5 GHz **VSWR** 1.35:1 Return Loss 16.54 dB

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

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 Type 0.81mm Inner Conductor Type Stranded Cable Inner Conductor Copper, 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 Female Bulkhead

Configuration Straight Mount Method Bulkhead

Inner Conductor Material and Plating Beryllium Copper, Gold

Body Material and Plating Brass, Gold

Connector 2

WMCX 1.6 Plug Type

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

Part Number Configuration:

PE3CA1006 - xx uu

Unit of Measure:
cm = Centimeters

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 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-p.aspx

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PE3CA1006 CAD Drawing

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