



## SMA Male to WMCX 1.6 Plug Cable 6 Inch Length Using 0.81mm Coax, RoHS

### TECHNICAL DATA SHEET

PE3CA1029-6

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 manufacturers. 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 an 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	DC to 6 GHz
Impedance	50 Ohms
Max VSWR	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 Male to WMCX 1.6 Plug Cable 6 Inch Length Using 0.81mm Coax, RoHS PE3CA1029-6](#)


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Insertion Loss	0.78 dB
<b>Frequency 3</b>	
Frequency	1000 MHz
VSWR	1.35:1
Return Loss	16.54 dB
Insertion Loss	1.25 dB
<b>Frequency 4</b>	
Frequency	2.5 GHz
VSWR	1.35:1
Return Loss	16.54 dB
Insertion Loss	1.9 dB
<b>Frequency 5</b>	
Frequency	6 GHz
VSWR	1.5:1
Return Loss	13.98 dB
Insertion Loss	2.89 dB

**Mechanical Specifications**

<b>Temperature</b>	
Temperature Operating Range	-55 to +125 deg C
<b>Size</b>	
Length	6 in [152.4 mm]
<b>Cable</b>	
Cable Type	0.81mm
Inner Conductor Type	Stranded
Cable Inner Conductor	Copper, Silver
No of Shields	1
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
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Configuration

Straight

**Compliance Certifications** (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)RoHS Compliant  
REACH CompliantYes  
12/19/2011**Plotted and Other Data**

Notes:

- Values at +25 °C, sea level

**How to Order**

Part Number Configuration:



Example: PE3CA1029-12 = 12 inches long cable  
PE3CA1029-100cm = 100 cm long cable

SMA Male to WMCX 1.6 Plug Cable 6 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.

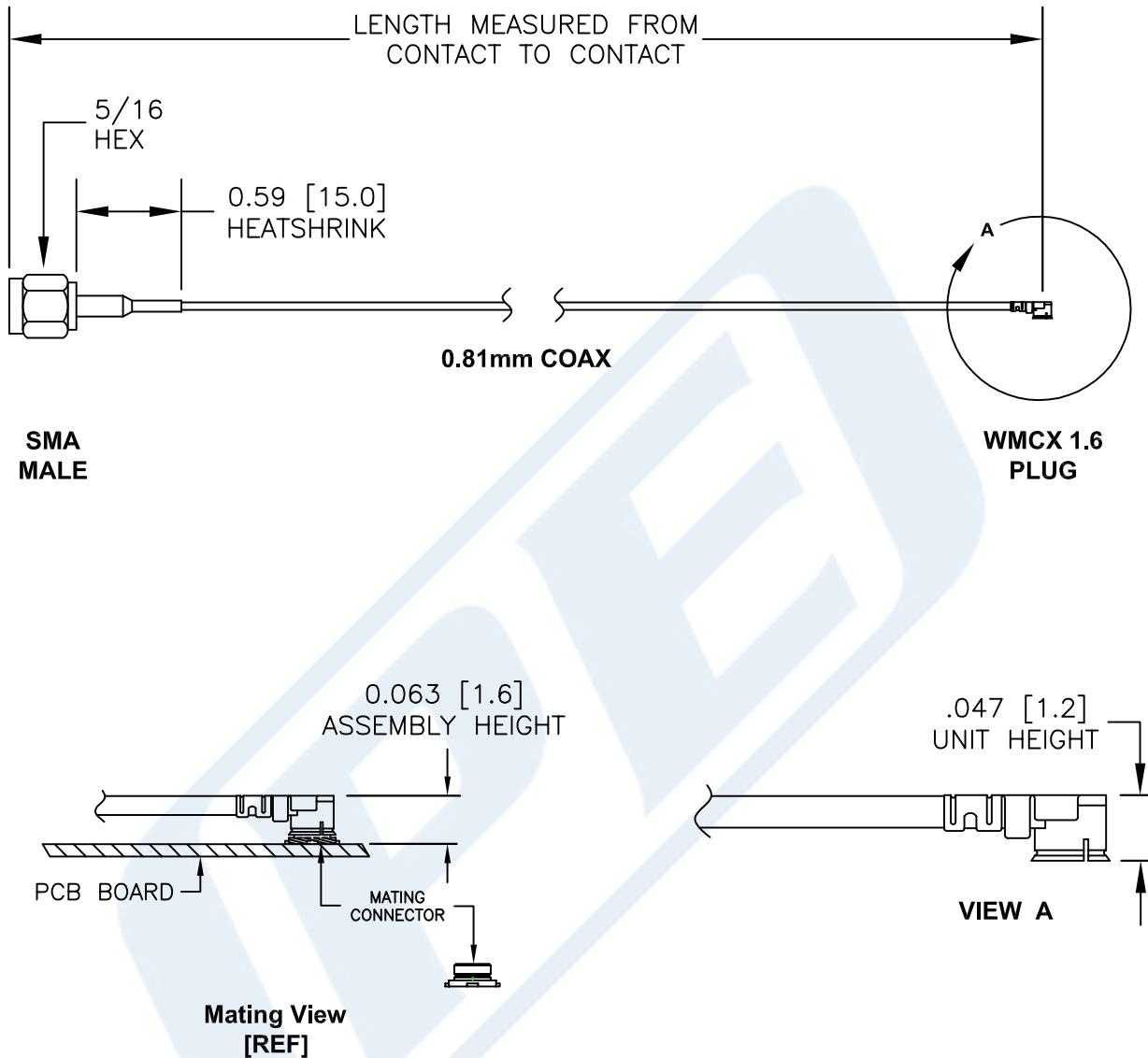
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements.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

# PE3CA1029-6 CAD Drawing

SMA Male to WMCX 1.6 Plug Cable 6 Inch Length Using 0.81mm Coax, RoHS



UMCX connectors are similar to U.FL.\*

\*U.FL is a Registered Trademark of  
Hirose Electronic Group



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#### NOTES:

1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].
4. LENGTH TOLERANCE IS  $\pm 1.5\%$  OR 3/8", WHICHEVER IS GREATER.

#### DWG TITLE

**PE3CA1029**

FSCM NO. 53919

CAD FILE

011515

SCALE N/A

SIZE A

200