



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	SMA Female Bulkhead
Connector 2	WMCX 1.6 Plug
Cable Type	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 Female Bulkhead to WMCX 1.6 Plug Cable 12 Inch Length Using 0.81mm Coax, RoHS PE3CA1006-12](#)



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Insertion Loss 0.78 dB

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 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 Female Bulkhead
Configuration Straight
Mount Method Bulkhead
Inner Conductor Material and Plating Beryllium Copper, Gold
Body Material and Plating Brass, Gold

Connector 2

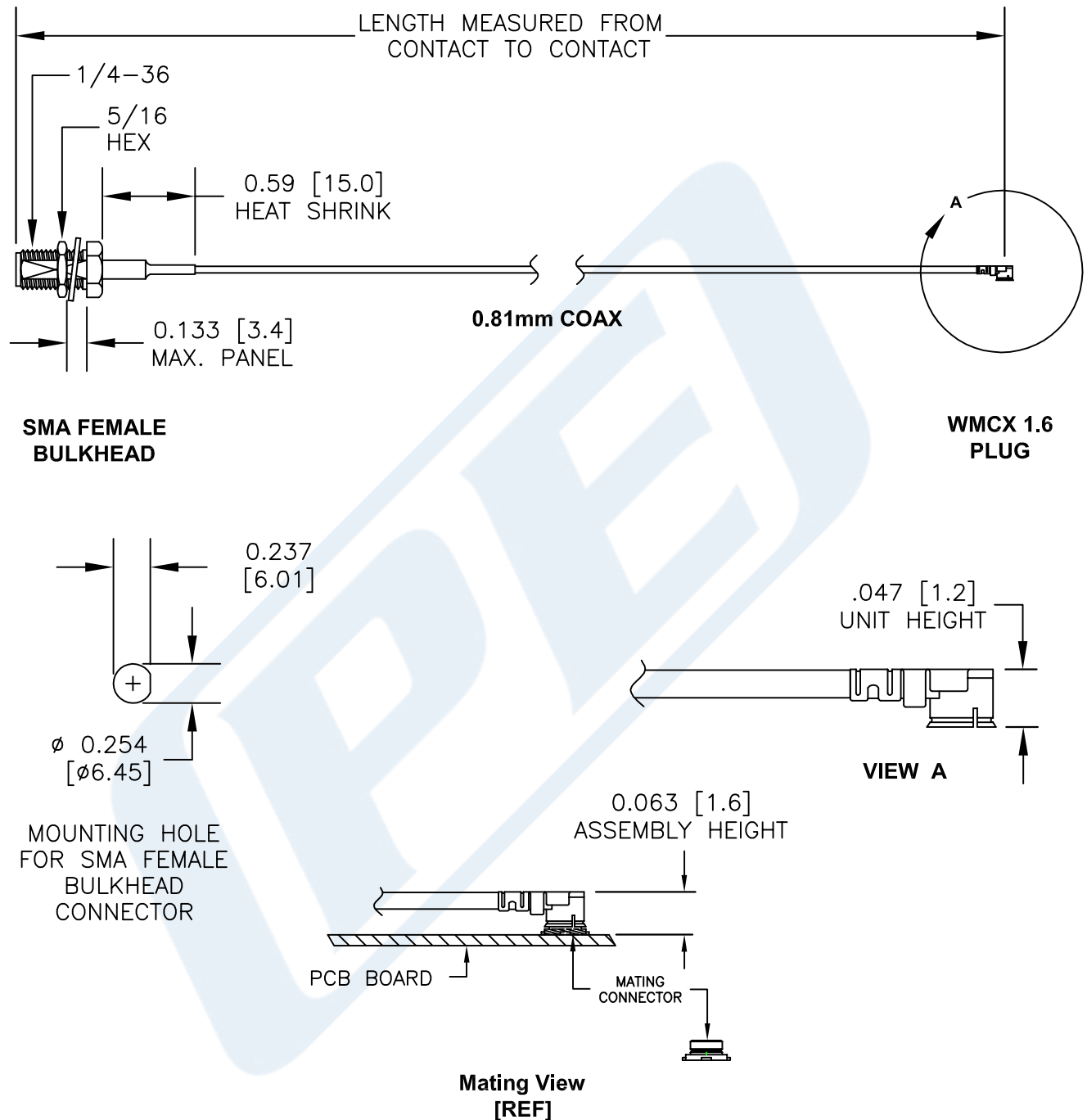
Type WMCX 1.6 Plug

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PE3CA1006-12

PE3CA1006-12 CAD Drawing

SMA Female Bulkhead to WMCX 1.6 Plug Cable 12 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

PE3CA1006

FSCM NO. 53919

CAD FILE

011415

SCALE N/A

SIZE A

200