



# UMCX 2.5 Plug to UMCX 2.5 Plug Cable Using 1.37mm Coax, RoHS

#### **TECHNICAL DATA SHEET**

### PE3CA1053

Pasternack's UMCX 2.5 series ultra-miniature coaxial cable assemblies (also called 2.5mm UMCX) have a mated connection height of only 2.5mm. They are constructed using a flexible micro-coax cable and are compatible with products such as Hirose U.FL, IPEX MHF and other UMCX connector and cable manufactures. Our UMCX 2.5 plug connectors are comparable in design to the Hirose U.FL connectors and the IPEX MHF series connectors. Pasternack also provided three additional connector options for our in-series 0.81mm micro-coax jumper cables including UMCX 2.1, WMCX 1.6 and HMCX32 1.2 connectors. UMCX 2.5 are available in the following coax types; 0.81mm, 1.13mm, 1.37mm, RG178 and RG178-DS.

These small form factor, flexible micro-coax jumper cables provide a low profile RF connection perfect for board-to-board connectivity such as mini-PCI circuit boards. With performance up to 6 GHz, these UMCX jumper cables are ideal for wireless applications including Wi-Fi, Bluetooth, GPS, ZigBee, LTE and many others. Our UMCX 2.5 cable assemblies are available from stock in standard lengths, and custom lengths are available upon request. Standard length UMCX 2.5 cables ship same day they are ordered.

#### **Features**

- · 2.5mm mated assembly height
- · Operate from DC to 6 GHz
- 100% RF and Continuity tested

- Compatible with Hirose U.FL and IPEX MHF 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 UMCX 2.5 Plug UMCX 2.5 Plug 1.37mm

#### **Electrical Specifications**

Frequency Range Impedance Max VSWR DC to 6 GHz 50 Ohms 1.55:1

#### Performance by Frequency

#### Frequency 1

 Frequency
 250 MHz

 VSWR
 1.4:1

 Return Loss
 15.56 dB

Insertion Loss 0.15 dB/ft [0.49 dB/m]

#### Frequency 2

Frequency 500 MHz VSWR 1.4:1 Return Loss 15.56 dB

Insertion Loss 0.35 dB/ft [1.15 dB/m]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: UMCX 2.5 Plug to UMCX 2.5 Plug Cable Using 1.37mm Coax, RoHS PE3CA1053

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Frequency 3

Frequency 1000 MHz **VSWR** 1.4:1 Return Loss 15.56 dB

0.53 dB/ft [1.74 dB/m] Insertion Loss

Frequency 4

Frequency 2.5 GHz **VSWR** 1.4:1 Return Loss 15.56 dB

Insertion Loss 0.8 dB/ft [2.62 dB/m]

Frequency 5

Frequency 6 GHz **VSWR** 1.55:1 Return Loss 13.32 dB

Insertion Loss 1.37 dB/ft [4.49 dB/m]

**Mechanical Specifications** 

Temperature

Temperature Operating Range -55 to +125 deg C

Size

Cable

Cable Type 1.37mm Inner Conductor Type Stranded Cable Inner Conductor Copper, Silver

No of Shields

Cable Outer Conductor **Tinned Copper** 

**FEP** Dielectric Type **FEP Jacket Material** 

Jacket Diameter 0.053 in [1.35 mm]

**Connector 1** 

Type UMCX 2.5 Plug Configuration Straight

**Connector 2** 

Type UMCX 2.5 Plug Configuration Straight

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

**RoHS Compliant** Yes

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#### **Plotted and Other Data**

Notes:

• Values at +25 °C, sea level

#### **How to Order**

Part Number Configuration:

PE3CA1053
- xx uu

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

Example: PE3CA1053-12 = 12 inches long cable PE3CA1053-100cm = 100 cm long cable

UMCX 2.5 Plug to UMCX 2.5 Plug Cable Using 1.37mm 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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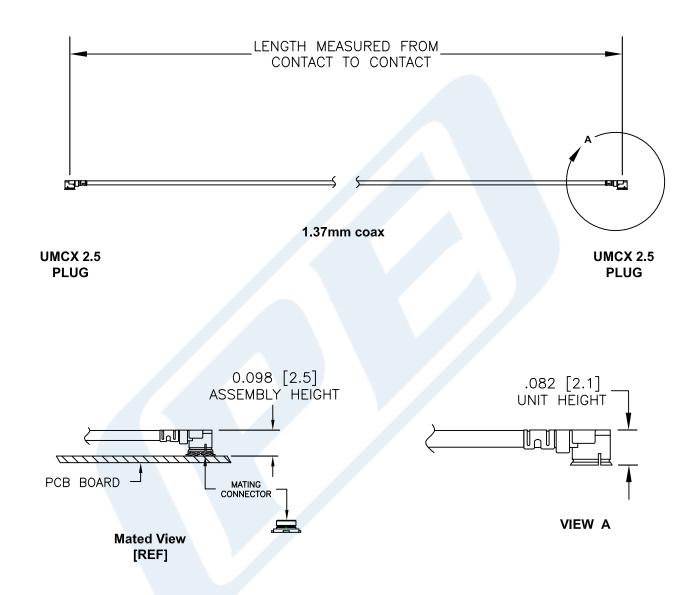
URL: http://www.pasternack.com/umcx-2.5-plug-umcx-2.5-plug-1.37mm-cable-assembly-pe3ca1053-p.aspx

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.



### PE3CA1053 CAD Drawing

UMCX 2.5 Plug to UMCX 2.5 Plug Cable Using 1.37mm Coax, RoHS



UMCX connectors are similar to U.FL\*
\*U.FL is a Registered Trademark of
Hirose Electronic Group

