



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

TECHNICAL DATA SHEET

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

Applications

- Wireless LAN, Mini PCI
- Mobile Antenna/GPS/Radio Systems

Configuration

Connector 1 Connector 2 Cable Type

Electrical Specifications

Frequency Range Impedance Max VSWR

Performance by Frequency

Frequency 1 Frequency VSWR Return Loss Insertion Loss

Frequency 2

Frequency VSWR Return Loss Insertion Loss PDA/PCS/Cellular Handset applications Wireless Communications systems (LAN, GSM, PCS, WCDMA. UMTS)

Compatible with Hirose U.FL and IPEX MHF products

Small foot print with easy snap on/off mating

UMCX 2.5 Plug UMCX 2.5 Plug 1.37mm

DC to 6 GHz 50 Ohms 1.55:1

250 MHz 1.4:1 15.56 dB 0.15 dB/ft [0.49 dB/m]

500 MHz 1.4:1 15.56 dB 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

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com

PE3CA1053





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Frequency 3 Frequency VSWR Return Loss Insertion Loss

Frequency 4

Frequency VSWR Return Loss Insertion Loss

Frequency 5 Frequency VSWR

Return Loss Insertion Loss

Mechanical Specifications

Temperature Temperature Operating Range

Size

Cable

Cable Type Inner Conductor Type Cable Inner Conductor No of Shields Cable Outer Conductor Dielectric Type Jacket Material Jacket Diameter

Connector 1 Type Configuration

Connector 2 Type Configuration 1000 MHz 1.4:1 15.56 dB 0.53 dB/ft [1.74 dB/m]

2.5 GHz 1.4:1 15.56 dB 0.8 dB/ft [2.62 dB/m]

6 GHz 1.55:1 13.32 dB 1.37 dB/ft [4.49 dB/m]

-55 to +125 deg C

1.37mm Stranded Copper, Silver 1 Tinned Copper FEP FEP 0.053 in [1.35 mm]

UMCX 2.5 Plug Straight

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

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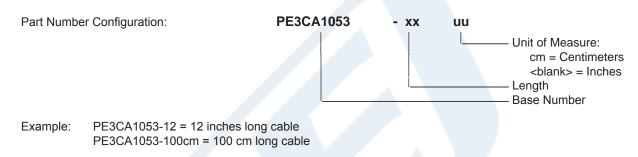
PE3CA1053

Plotted and Other Data

Notes:

• Values at +25 °C, sea level

How to Order



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.

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PE3CA1053 CAD Drawing UMCX 2.5 Plug to UMCX 2.5 Plug Cable Using 1.37mm Coax, RoHS

