



**PE3CA1012** 

### N Female Bulkhead to UMCX 2.5 Plug Cable Using RG178-DS 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 ultra-miniature products from companies such as Hirose, IPEX, and other UMCX connector and cable manufactures. Our UMCX 2.5 plug connectors are comparable in design to the Hirose U.FL series of connectors and the IPEX MHF 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 UMCX 2.5 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. Other coax cable options include 1.13mm, 1.37mm, RG178, and RG178-DS (double shielded). These U.FL and MHF compatible 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 the same day they are ordered.

#### Features

- 1.2mm, 1.6mm, 2.1mm and 2.5mm mated assembly height's
- Operate from DC to 6GHz
- 100% RF and Continuity tested
- Applications
  - Wireless LAN, Mini PCIMobile 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  PDA/PCS/Cellular Handset applications • Wireless Communications systems (LAN,GSM,PCS, WCDMA, UMTS)

Compatible with Hirose U.FL and IPEX MHF products

• Available in 0.81mm, 1.13mm, 1.37mm, RG178 and

Small foot print with easy snap on/off mating

N Female Bulkhead UMCX 2.5 Plug RG178-DS

RG178-DS shielded coax

DC to 3 GHz 50 Ohms 1.35:1

250 MHz 1.35:1 16.54 dB 0.44 dB/ft [1.44 dB/m]

500 MHz 1.35:1

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: N Female Bulkhead to UMCX 2.5 Plug Cable Using RG178-DS Coax, RoHS PE3CA1012

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



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Return Loss Insertion Loss

### 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 1 Dielectric Type Jacket Material Jacket Diameter

Connector 1 Type Configuration Mount Method Inner Conductor Material and Plating Body Material and Plating

Connector 2 Type 16.54 dB 0.54 dB/ft [1.77 dB/m]

1000 MHz 1.35:1 16.54 dB 1.86 dB/ft [6.1 dB/m]

2.5 GHz 1.35:1 16.54 dB 0.95 dB/ft [3.12 dB/m]

3 GHz 1.35:1 16.54 dB 1.08 dB/ft [3.54 dB/m]

-55 to +125 deg C

RG178-DS Stranded Copper, Silver 1 Tinned Copper FEP FEP 0.086 in [2.18 mm]

N Female Bulkhead Straight Bulkhead Phosphor Bronze, Gold Brass, Nickel

UMCX 2.5 Plug

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#### **TECHNICAL DATA SHEET PE3CA1012** Configuration Straight Compliance Certifications (visit www.Pasternack.com for current document) **RoHS** Compliant Yes **REACH** Compliant 12/19/2011 Plotted and Other Data Notes: Values at +25 °C, sea level How to Order **PE3CA1012** Part Number Configuration: ΧХ uu Unit of Measure: cm = Centimeters <blank> = Inches Length **Base Number** Example: PE3CA1012-12 = 12 inches long cable PE3CA1012-100cm = 100 cm long cable

N Female Bulkhead to UMCX 2.5 Plug Cable Using RG178-DS 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/n-female-umcx-2.5-plug-rg178-ds-cable-assembly-pe3ca1012-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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