

# SMA Male to UMCX 2.5 Plug Cable 12 Inch Length Using RG178-DS Coax, RoHS



## **TECHNICAL DATA SHEET**

# PE3CA1027-12

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

- Compatible with Hirose U.FL and IPEX MHF products
- Available in 0.81mm, 1.13mm, 1.37mm, RG178 and RG178-DS shielded coax
- · 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 UMCX 2.5 Plug RG178-DS

### **Electrical Specifications**

Frequency Range Impedance Max VSWR DC to 6 GHz 50 Ohms 1.5:1

#### Performance by Frequency

#### Frequency 1

 Frequency
 250 MHz

 VSWR
 1.35:1

 Return Loss
 16.54 dB

 Insertion Loss
 0.44 dB

Frequency 2

Frequency 500 MHz VSWR 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: SMA Male to UMCX 2.5 Plug Cable 12 Inch Length Using RG178-DS Coax, RoHS PE3CA1027-12

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ISO 9001: 2008 Registered



# FERNACK

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Return Loss	16.54 dB
Insertion Loss	0.54 dB

#### Frequency 3

Frequency 1000 MHz VSWR 1.35:1 Return Loss 16.54 dB Insertion Loss 1.86 dB

#### Frequency 4

 Frequency
 2.5 GHz

 VSWR
 1.35:1

 Return Loss
 16.54 dB

 Insertion Loss
 0.95 dB

#### Frequency 5

 Frequency
 6 GHz

 VSWR
 1.5:1

 Return Loss
 13.98 dB

 Insertion Loss
 1.86 dB

## **Mechanical Specifications**

#### **Temperature**

Temperature Operating Range -55 to +125 deg C

#### Size

Length 12 in [304.8 mm]

#### Cable

Cable TypeRG178-DSInner Conductor TypeStrandedCable Inner ConductorCopper, SilverNo of Shields1Cable Outer Conductor 1Tinned CopperDielectric TypeFEP

Jacket Material FEP

Jacket Diameter 0.086 in [2.18 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

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# TAS TERNAS A

# SMA Male to UMCX 2.5 Plug Cable 12 Inch Length Using RG178-DS Coax, RoHS

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Connector 2

Type UMCX 2.5 Plug 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

Part Number Configuration:

PE3CA1027 - xx uu

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

Example: PE3CA1027-12 = 12 inches long cable

PE3CA1027-100cm = 100 cm long cable

SMA Male to UMCX 2.5 Plug Cable 12 Inch Length 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.

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 UMCX 2.5 Plug Cable 12 Inch Length Using RG178-DS Coax, RoHS PE3CA1027-12

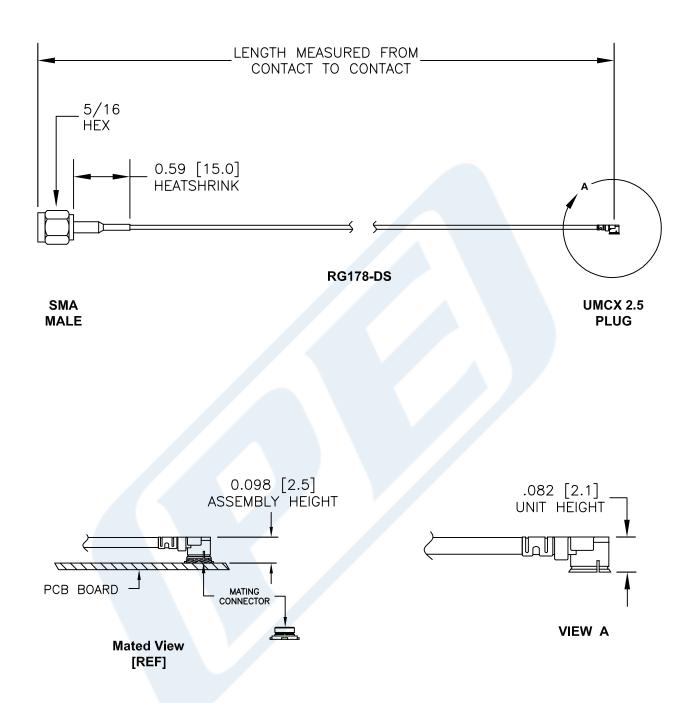
URL: http://www.pasternack.com/sma-male-umcx-2.5-plug-rg178-ds-cable-assembly-pe3ca1027-12-p.aspx

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.



# PE3CA1027-12 CAD Drawing

SMA Male to UMCX 2.5 Plug Cable 12 Inch Length Using RG178-DS Coax, RoHS



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