

# SMA Male to UMCX 2.5 Plug Cable Using RG178 Coax, RoHS

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## **PE3CA1026**

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

TECHNICAL DATA SHEET

- 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 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** 

applications

PDA/PCS/Cellular Handset

 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

RG178-DS shielded coax

SMA Male UMCX 2.5 Plug RG178

DC to 6 GHz 50 Ohms 1.5:1

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: SMA Male to UMCX 2.5 Plug Cable Using RG178 Coax, RoHS PE3CA1026

PE3CA1026 REV 1.1

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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### **TECHNICAL DATA SHEET**

Return Loss Insertion Loss

#### Frequency 3 Frequency VSWR

Return 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 Inner Conductor Material and Plating Coupling Nut 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 0.74 dB/ft [2.43 dB/m]

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

6 GHz 1.5:1 13.98 dB 1.86 dB/ft [6.1 dB/m]

-55 to +125 deg C

RG178 Stranded Copper, Silver 1 Tinned Copper FEP FEP 0.07 in [1.78 mm]

SMA Male Straight Brass, Gold Brass, Gold Brass, Gold

UMCX 2.5 Plug

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PE3CA1026



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TECHNICAL DATA SHEET					PE3CA1026
	Configuration		Straight		
	<b>Compliance Certifications</b> (visit www. RoHS Compliant REACH Compliant	Pasternack.com for curre	ent document) Yes 12/19/2011		
	Plotted and Other Data Notes: • Values at +25 °C, sea level				
	How to Order				
	Part Number Configuration:	PE3CA1026	- xx	uu 	<ul> <li>Unit of Measure:</li> <li>cm = Centimeters</li> <li><blank> = Inches</blank></li> <li>Length</li> <li>Base Number</li> </ul>
	Example: PE3CA1026-12 = 12 inc PE3CA1026-100cm = 10				

SMA Male to UMCX 2.5 Plug Cable Using RG178 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 Using RG178 Coax, RoHS PE3CA1026

URL: http://www.pasternack.com/sma-male-umcx-2.5-plug-rg178bu-cable-assembly-pe3ca1026-p.aspx

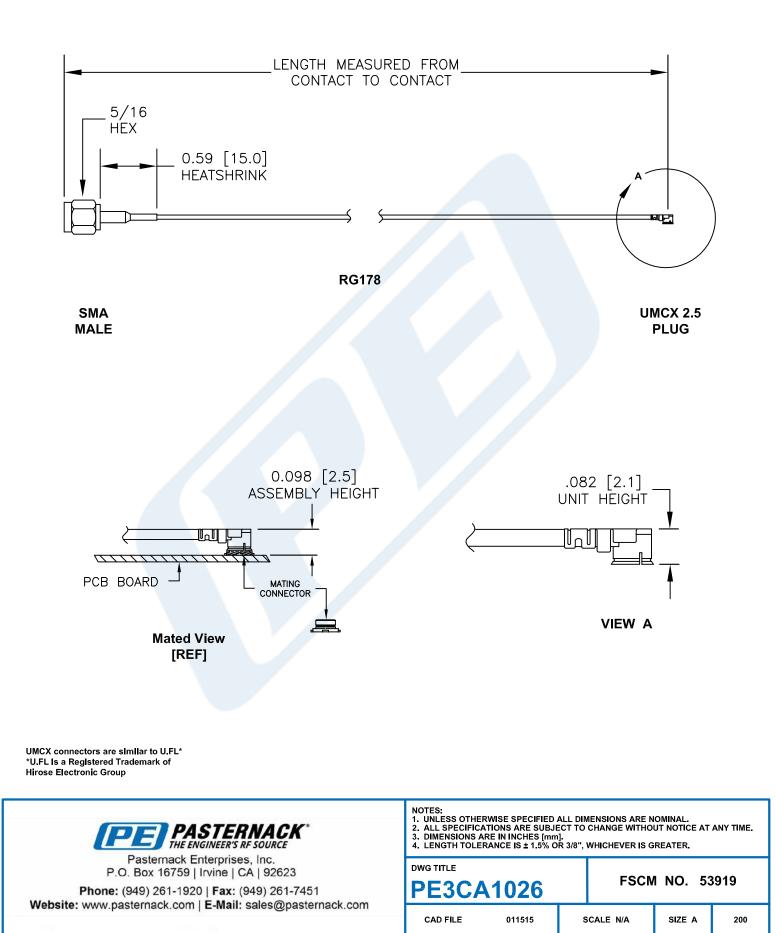
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### PE3CA1026 CAD Drawing SMA Male to UMCX 2.5 Plug Cable Using RG178 Coax, RoHS



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