



SMA Female Bulkhead to UMCX 2.5 Plug Cable 6 Inch Length Using RG178 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

<ul> <li>1.2mm, 1.6mm, 2.1mm and 2.5mm mated assembly height's</li> <li>Operate from DC to 6GHz</li> <li>100% RF and Continuity tested</li> </ul>		<ul> <li>Compatible with Hirose U.FL and IPEX MHF products</li> <li>Available in 0.81mm, 1.13mm, 1.37mm, RG178 and RG178-DS shielded coax</li> <li>Small foot print with easy snap on/off mating</li> </ul>	
Applications <ul> <li>Wireless LAN, Mini PCI</li> <li>Mobile Antenna/GPS/Radio</li> </ul>	<ul> <li>PDA/PCS/Cellular applications</li> </ul>	Handset	<ul> <li>Wireless Communications systems (LAN,GSM,PCS,</li> </ul>
Systems	applications		WCDMA, UMTS)
Configuration			
Connector 1		SMA Female Bulkhead	
Connector 2		UMCX 2.5 Plug	
Cable Type		RG178	
Electrical Specifications			
Frequency Range		DC to 6 GHz	
Impedance		50 Ohms	
Max VSWR		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	
Olick the following link (or enter part ru		uchoite) to obtain	additional part information including price

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Female Bulkhead to UMCX 2.5 Plug Cable 6 Inch Length Using RG178 Coax, RoHS PE3CA1003-6

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

**PE3CA1003-6** 



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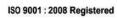
**PE3CA1003-6** 

#### 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 0.74 dB **Frequency 4** Frequency 2.5 GHz **VSWR** 1.35:1 16.54 dB Return Loss Insertion Loss 0.95 dB **Frequency 5** Frequency 6 GHz VSWR 1.5:1 Return Loss 13.98 dB 1.86 dB Insertion Loss **Mechanical Specifications** Temperature Temperature Operating Range -55 to +125 deg C Size Length 6 in [152.4 mm] Cable RG178 Cable Type Inner Conductor Type Stranded Cable Inner Conductor Copper, Silver No of Shields 1 Cable Outer Conductor 1 **Tinned Copper Dielectric Type** FEP Jacket Material FEP Jacket Diameter 0.07 in [1.78 mm] **Connector 1** Type SMA Female Bulkhead Configuration Straight Mount Method Bulkhead Inner Conductor Material and Plating Beryllium Copper, Gold Body Material and Plating Brass, Gold

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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 12/19/2011 **REACH** Compliant **Plotted and Other Data** Notes: Values at +25 °C, sea level How to Order **PE3CA1003** Part Number Configuration: uu XX Unit of Measure: cm = Centimeters <blank> = Inches Length Base Number Example:

nple: PE3CA1003-12 = 12 inches long cable PE3CA1003-100cm = 100 cm long cable

SMA Female Bulkhead to UMCX 2.5 Plug Cable 6 Inch Length 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.

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URL: http://www.pasternack.com/sma-female-umcx-2.5-plug-rg178bu-cable-assembly-pe3ca1003-6-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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# PE3CA1003-6 CAD Drawing

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