




Ultimus I-III Calibration Cable Assembly Instructions

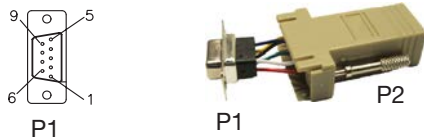
Introduction

A calibration cable is required to use the Ultimus™ I-III Vacuum Calibration Software. Follow these instructions to assemble the cable. You will need the following cable components available from Digi-Key™ Electronics.

Digi-Key Part #	Description	Item
A1662R-07-ND	Modular (communication) cable, plug to plug, 2.13 m (7'), unshielded, black	
AE10308-ND	Adapter connector, D-sub, 9-pin, female to modular, female jack, beige	

Digi-Key Part #	Description	Item
768-1138-ND	USB to RS232 cable, 100 mm (0.33'), shielded NOTES: <ul style="list-style-type: none"> Not required if the PC includes an RS-232 port. Other USB-to-RS232 adapters can be used. 	

- 1** Insert the D-sub adapter (P2) pins in the RS-232 jack (P1) per the table below.



P1 Receptacle #	Wire Color	P2 Pin #
6	Blue	1
2	Yellow	2
4	Green	3
5	Red	4
3	Black	5
9	White	6

- 2** Assemble and secure the D-sub adapter and RS-232 jack.



- 3** Connect one end of the communication cable to the D-sub adapter communication port.

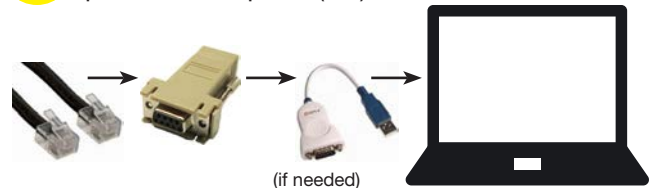


- 4** If the computer does not have an RS-232 port, connect the USB-to-RS232 adapter to the D-sub adapter RS-232 jack.

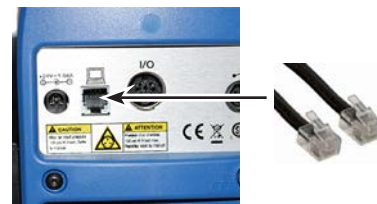
The calibration cable is now ready to use.



- 5** Connect the calibration cable to a laptop or personal computer (PC).



- 6** Connect the other end of the communication cable to the communication port on the back of the Ultimus I-III.



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800-556-3484; +1-401-431-7000
info@nordsonefd.com
europaenordsonefd.com
asia@nordsonefd.com

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