

Older Compaq UPS Family - Identifying Serial Communication Cables

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Overview



All UPS models ship with a computer serial interface cable. The computer interface cable is not needed for normal operation. If power management of the UPS is desired, connect the interface cable between the UPS communications port and the serial port on the host computer. Then install the UPS management software that is provided on the CD that came with the UPS. Check the Power Management software User Guide for the operating systems that are supported and UPS software installation instructions.

WARNING: Use only cables supplied by Compaq to connect the communications port to the host computer. Use of standard RS-232 cables may cause equipment damage.

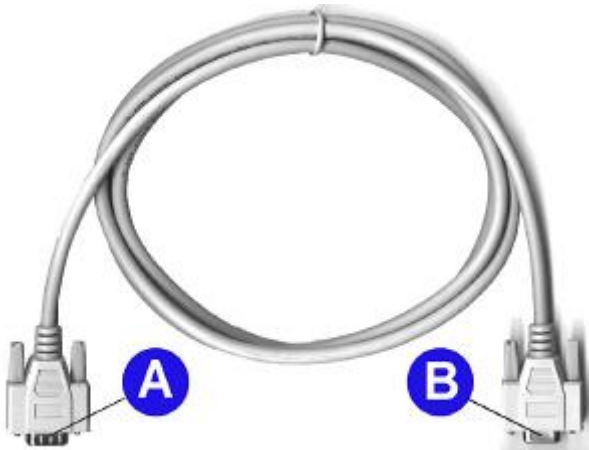
Cables Supplied

UPS Models	Cable Description [1]
T700 / T1000 / T1500 / T1500j	These models ship with a 6-foot UPS/computer interface cable, Compaq part number 295245-003, and a non-detachable input power cord.
T700h	These models ship with a 6-foot UPS/computer interface cable, Compaq part number 295245-003, and a detachable 6-foot IEC 10A input power cord.
T1000h / T1500h	These models ship with a 6-foot UPS/computer interface cable, Compaq part number 295245-003; and two 6-foot IEC to IEC power cords, Compaq part number 142263-001, for load equipment power.
R1500 / R1500j	These models ship with a 12-foot UPS/computer interface cable, Compaq part number 295245-004. The R1500 model ships with a detachable input power cord. The R1500j model ships with a 12-foot input power cord, Compaq part number

UPS Models	Cable Description [1]
	139867-006.
R1500h	This model ships with a 12-foot UPS/computer interface cable, Compaq part number 295245-004; and two 6-foot IEC to IEC power cords, Compaq part number 142263-001, for load equipment power.
T2000 / T2000j	These models ship with a 6-foot UPS/computer interface cable, Compaq part number 295245-003, and a non-detachable input power cord.
T2400h	This model ships with a detachable input power cord; a 6-foot UPS/computer interface cable, Compaq part number 295245-003; and two 6-foot IEC to IEC power cords, Compaq part number 142263-001, for load equipment power.
T2400h-NA	This model ships with a detachable input power cord, Compaq part number 162536-001; a 6-foot UPS/computer interface cable, Compaq part number 295245-003; and two 6-foot IEC to IEC power cords, Compaq part number 142263-001; for load equipment power.
R3000 / R3000j	These models ship with a non-detachable input power cord; a 12-foot UPS/computer interface cable, Compaq part number 295245-004; and two 10-amp, 6-foot, IEC to IEC power cords, Compaq part number 142263-001, for load equipment power.
R3000h / R3000h-International / R3000h-NA	These models ship with a non-detachable input power cord (the R3000h model only ships with a detachable input power cord); a 12-foot UPS/computer interface cable, Compaq part number 295245-004; two 10-amp, 6-foot, IEC to IEC power cords, Compaq part number 142263-001; two 8-foot IEC to IEC power cords, Compaq part number 142263-002; and two 10-foot IEC to IEC power cords, Compaq part number 142263-003, for load equipment power.
R6000h-NA / R6000i / R6000j	These models ship with a 12-foot UPS/computer interface cable, Compaq part number 295245-004. The R1500 model ships with a detachable input power cord. The R1500j model ships with a 12-foot input power cord, Compaq part number 139867-006.
<p>Note 1: All part number given in the above table are the assembly numbers found on the actual cables. See cable listings below for spare part numbers used to order communication cables.</p>	

6 Ft. Communication Cable

Figure 1: UPS Serial Communication Cable



Feature		Description
Spare Part Number	295501-001	
Assembly Number	295245-003	
Connector Type	A	9-Pin, D-Sub, AMP/Amphenol (Male) Connects to computer serial port
	B	9-Pin, D-Sub, AMP/Amphenol (Female) Connects to UPS serial port
<p>Note 1: Newer style cables have the Compaq assembly number on the grey housing of the 9-pin male connector. Older style cables have the assembly number on a sticker wrapped around the cable.</p>		

12 Ft. Communication Cable

Figure 2: UPS Serial Communication Cable



Feature		Description
Spare Part Number	122922-001	
Assembly Number	295245-004 [1]	
Connector Type	A	9-Pin, D-Sub, AMP/Amphenol (Male) Connects to computer serial port
	B	9-Pin, D-Sub, AMP/Amphenol (Female) Connects to UPS

Feature	Description
	serial port
<p>Note 1: Newer style cables have the Compaq assembly number on the grey housing of the 9-pin male connector. Older style cables have the assembly number on a sticker wrapped around the cable.</p>	

Older Compaq UPS Family

Older UPS Product Family					Communication Cable		
					See Chart below for part numbers		
UPS Model	Option No.	Assembly No.	VA Rating	Voltage	Cable Length	Serial Cable	
Use the following information to identify the exact model of Compaq UPS.						Spare Part No.	Assembly No.
T700 - Low Voltage	295272-B21	295373-001	700	120V	6 ft. [1]	295501-001	295245-003 [2]
T700h - High Voltage	295372-B22	295373-002	700	230V	6 ft. [1]	295501-001	295245-003 [2]
T700j - Japanese	295372-291	295373-191	700	100V	6 ft. [1]	295501-001	295245-003 [2]
T1000 - Low Voltage	242688-001	242690-001	1000	120V	6 ft. [1]	295501-001	295245-003 [2]
T1000h - High Voltage	242688-002	242690-002	1000	230V	6 ft. [1]	295501-001	295245-003 [2]
T1500 - Low Voltage	242688-003	242690-003	1500	120V	6 ft. [1]	295501-001	295245-003 [2]
T1500h - High Voltage	242688-004	242690-004	1500	230V	6 ft. [1]	295501-001	295245-003 [2]
T1500j - Japanese	242688-293	242690-193	1500	100V	6 ft. [1]	295501-001	295245-003 [2]
T2000 - Low	242688-005	242690-005	2000	120V	6 ft. [1]	295501-001	295245-003 [2]

Older UPS Product Family					Communication Cable		
Voltage							
T2000j - Japanese	242688-295	242690-195	2000	100V	6 ft. [1]	295501-001	295245-003 [2]
T2400 - High Voltage (NA)	242688-006	242690-006	2400	208V	6 ft. [1]	295501-001	295245-003 [2]
T2400 - High Voltage	242688-007	242690-007	2400	230V	6 ft. [1]	295501-001	295245-003 [2]
R1500 - Low Voltage	242704-001	295241-001	1500	120V	12 ft.	122922-001	295245-004 [3]
R1500h - High Voltage	242704-002	295241-002	1500	230V	12 ft.	122922-001	295245-004 [3]
R1500j - Japanese	242704-291	295241-191	1500	100V	12 ft.	122922-001	295245-004 [3]
R3000 - Low Voltage	242705-001	242706-001	3000	120V	12 ft.	122922-001	295245-004 [3]
R3000 - High Voltage	242705-002	242706-002	3000	230V	12 ft.	122922-001	295245-004 [3]
R3000 - High Voltage (NA)	242705-003	242706-005	3000	208V	12 ft.	122922-001	295245-004 [3]
R3000j - Japanese	242705-291	242706-191	3000	100V	12 ft.	122922-001	295245-004 [3]
R6000 - High Voltage (NA)	347207-001	204405-001	6000	208V	12 ft.	122922-001	295245-004 [3]
R6000 - High Voltage	347207-B31	204405-002	6000	230V	12 ft.	122922-001	295245-004 [3]
R6000j - Japanese	347207-291	204405-191	6000	100V	12 ft.	122922-001	295245-004 [3]
<p>Note 1: The 6 ft. UPS communication cable can be upgraded to the 12 ft. cable with spare part kit if a longer cable is needed.</p> <p>Note 2: The old assembly part number of 295245-001 has been replaced by part number 295245-003. An extra grounding connection was added to the newer cable.</p> <p>Note 3: The old assembly part number of 295245-002 has been replaced by part number 295245-004. An extra grounding connection was added to the newer cable.</p>							

Communication Port and Cable Pin-out

The UPS communication port is configured to operate at 1200 baud, 8 data bits, no parity, one stop bit and uses the Xon/Xoff protocol.

CAUTION: The following serial port pin-out was found on only the older models of the Compaq UPS family of products. This serial interface communication cable pin-out is only compatible with the older models of UPS listed above.

UPS 9-Pin Port			Cable Wiring	Computer 9-Pin Port		
Pin	Signal Path	Signal Operation		Signal Path	Signal Operation	Pin
1	Input	RS-232 Serial Input: Accepts commands in UPS code serial format. User can send a high RS-232 level for over 0.2 seconds (break) to turn off the UPS until proper voltage returns. Active only if UPS is in battery operation.	<====>	Output	Transmit Data	3
2	Output	RS-232 Serial Output: UPS sends UPS code messages through this pin.	<====>	Input	Receive Data	2
3	Output	Not used in serial mode.	Not connected	Input (Interconnect)	Data Terminal Ready, connects to pin 6 below.	4
4	Common	RS-232 signal ground	<====>	Common	RS-232 signal ground	5
5	Output	Not used in serial mode	Not connected	Input	Carrier Detect. Not used in serial mode with UPS	1
6	Input	Plug and Play interface	<====>	Output	Request to send	7
7	Input	Relay contact or	Not	Output	Data Set	6

		RS232 level. Remote output OFF/ON, UPS off with signal low.	connected	(Interconnect)	Ready, connects to pin 4 above.	
8	Output	Not used in serial mode	Not connected	Output	Clear to Send. Not used in serial mode with UPS	8
9	Ground	Chassis Ground	Not connected	Input	Ring Indicator. Not used in serial mode with UPS	9

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