

12 CDHD2 Accessories

12.1 Mating Connector Kits

Description	Servotronic Part Number
CDHD2 (MV) Power mating 1.5A 3A 120/240 VAC, Spring	KIT-2A-PWSPR-00
CDHD2 (MV) Power mating 4.5A 6A 120/240 VAC, Spring	KIT-2B-PWSPR-00
CDHD2 (MV) Power mating 8A 10A 13A 120/240 VAC, Crimp	KIT-2C-POWER-00
CDHD2 (MV) Power mating 20A 24A 240 VAC, Spring	KIT-2D-PWSPR-00
CDHD2 (LV) Power mating 3A, 6A, 12A, 15A, 18A 20/90 VAC	KIT-1D-POWER-00
CDHD2 C2 – Controller interface MDR 36 pins	KIT-C2MDR36 0 0 0
CDHD2 C3 – Machine interface MDR 20 pins	KIT-C3MDR20 0 0 0
CDHD2 C4 – Feedback MDR 26 pins	KIT-C4MDR26 0 0 0
CDHD2 STO connector	KIT-00P1000-00

12.2 Cables

Table 12-1. C1 – USB 2.0 A to Mini-B Cable

Note It is strongly recommended that you use the USB cable supplied by Servotronic, which has been tested and proven for reliability.

Item	Specification	Servotronic Part Number
USB 2.0 A to Mini-B Cable		CBLr0000USBA-00
Shield	85% copper braid shield coverage	
Twisted pair	Required	
Maximum length	3 m	
Wire gauge	20–28 AWG	
EMI filtering	2 ferrite cores, located near each connector	

Table 12-2. C2 – Controller Interface Cable

Item	Specification	Servotronic Part Number
C2 Flying Leads Cable	Cable 1 meter, flying leads	CBL-MDR2-36-01
	Cable 2 meter, flying leads	CBL-MDR2-36-02
	Cable 3 meter, flying leads	CBL-MDR2-36-03
	Cable 5 meter, flying leads	CBL-MDR2-36-05
	Cable 10 meter, flying leads	CBL-MDR2-36-10

Table 12-3. C3 – Machine Interface Cable

Item	Specification	Servotronix Part Number
C2 Flying Leads Cable	Cable 1 meter, flying leads	CBL-MDR2-20-01
	Cable 2 meter, flying leads	CBL-MDR2-20-02
	Cable 3 meter, flying leads	CBL-MDR2-20-03
	Cable 5 meter, flying leads	CBL-MDR2-20-05
	Cable 10 meter, flying leads	CBL-MDR2-20-10

Table 12-4. C4 – Feedback Cable

Item	Specification	Servotronix Part Number
C2 Flying Leads Cable	Cable 1 meter, flying leads	CBL-MDR2-26-01
	Cable 2 meter, flying leads	CBL-MDR2-26-02
	Cable 3 meter, flying leads	CBL-MDR2-26-03
	Cable 5 meter, flying leads	CBL-MDR2-26-05
	Cable 10 meter, flying leads	CBL-MDR2-26-10

Table 12-5. C5 | C6 – RJ45 Industrial Ethernet/EtherCAT Cat 5e Cable

Item	Specification	Servotronix Part Number
RJ45 CAT5E Cable	Length: 0.5 meter	CBLr00400100-00
	Length: 1 meter	CBLr00400180-00
	Length: 2 meter	CBLr00400110-00
	Length: 10 meter	CBLr00400140-00
Shield	85% copper braid shield coverage	
Twisted pair	Required	
Maximum length	10 m	
Wire gauge	26-27 AWG	

Table 12-6. C7 – RS232 Cable

Item	Specification	Servotronix Part Number
RS232 Cable		CBLrRS232AS0-01
Shield	85% copper braid shield coverage	
Maximum length	10 m	
Wire gauge	24–28 AWG	

Table 12-7. USB to RS232 Adapter Cable

Item	Specification	Servotronix Part Number
USB to RS232 Converter		CBLr000UT880-00
Shield	85% copper braid shield coverage	
Maximum length	1.5 m	

Table 12-8. C8 – Daisy Chain

Item	Specification	Servotronix Part Number
Cable		--
Shield	85% copper braid shield coverage	
Twisted pair	Required	
Maximum length	0.5 m	
Wire gauge	24–28 AWG	

Table 12-9. C3<>C3 – Gantry Cable

Item	Specification	Servotronix Part Number
Gantry Cable	Cable 0.5 meter	CBL-00C3GAN-005
	Cable 1 meter	CBL-00C3GAN-010
	Cable 2 meter	CBL-00C3GAN-020
Twisted pair	Required	
Wire gauge	24–28 AWG	

12.3 D9-RJ45 Adapter

Many PLC devices use D9 type interfaces for CAN connections.

To enable the connection of the CDHD2 RJ45 port to a D9 interface, Servotronix offers an adapter, as shown below.

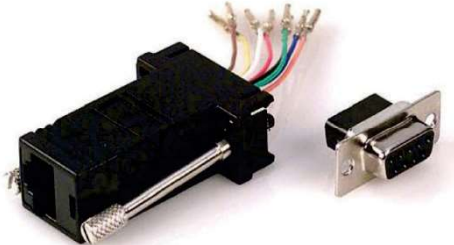


Figure 12-1. D9-RJ45 Adapter

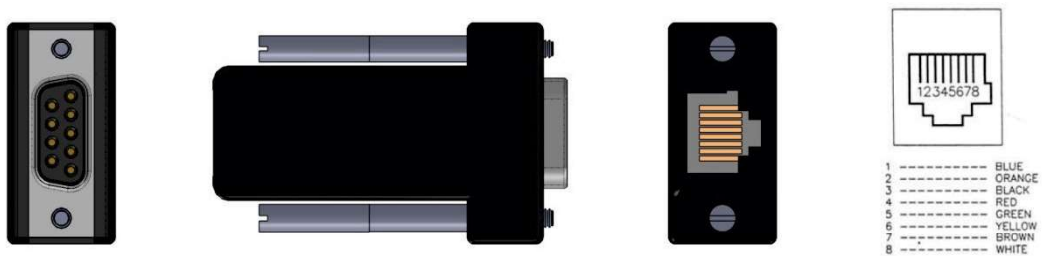


Figure 12-2. D9-RJ45 Adapter Interfaces

Table 12-10. D9-RJ45 Adapter Wiring

Function	CDHD2 RJ45 Pin	D9 Connector Pin
CAN High	1	7
CAN Low	2	2
Functional Ground	3	3
CAN Shield	6	5
Functional Ground	7	6

Table 12-11. D9-RJ45 Adapter

Description	Servotronix Part Number
CDHD2 Adapter CAN, D9 to RJ45	ADPrCAN_D9-RJ45
CDHD2 Adapter DB95, RJ45/ Female 8 Contact	ADPr0AMK0001-00

12.4 Line Filters

The manufacturers and part numbers of line filters recommended for the CDHD2 are listed in the following tables.

Table 12-12. Recommended Line Filters for CDHD2 MV Models

MV Models	CDHD2-1D5-2A CDHD2-003-2A	CDHD2-4D5-2A CDHD2-006-2A	CDHD2-4D5-2A CDHD2-006-2A
Mains	Single Phase	Single Phase	Three Phase
Manufacturer Part Number	High & Low 04SS4-2NC2-x-Q	LCR 0923.01021.00	LCR 096B.01001.00
Manufacturer Part Number	LCR 055M.80601.00	LCR 092.01023.00	Schaffner FN3258
Manufacturer Part Number	LCR 092.00423.00	LCR 055.81011.00	
Manufacturer Part Number	Schaffner FN2070	Schaffner FN2070	
MV Models	CDHD2-008-2A CDHD2-010-2A CDHD2-013-2A	CDHD2-020-2A CDHD2-024-2A	CDHD2-033-2A CDHD2-044-2A CDHD2-055-2A
Mains	Three Phase	Three Phase	Three Phase
Manufacturer Part Number	LCR 096B.02001.00	LCR 096.03501.00	TBD
Manufacturer Part Number	LCR 097.01601.00	LCR 096B.03001.00	TBD
Manufacturer Part Number	Schaffner FN3258	Schaffner FN3258	TBD

12.5 Regeneration Resistors

Resistance values (Ohms, Ω) are defined by the CDHD2 servo drive. Required power is defined by the application. Therefore, each drive has several regeneration resistor options.

The manufacturers and part numbers of regen resistors recommended for the CDHD2 are listed in the following tables.

Refer to *Regeneration* .

Table 12-13. Recommended Regen Resistors for CDHD2 MV Models

	CDHD2-1D5-2A CDHD2-003-2A	CDHD2-4D5-2A CDHD2-006-2A CDHD2-008-2A CDHD2-010-2A CDHD2-013-2A	CDHD2-020-2A CDHD2-024-2A	CDHD2-033-2A CDHD2-044-2A CDHD2-055-2A
Power (W)	Minimum Resistance 100 Ω	Minimum Resistance 33 Ω	Minimum Resistance 15 Ω	Minimum Resistance TBD Ω
150	ISOTEK ULH150 N 100 K FL500	ISOTEK ULH150 N 33 K FL500	ISOTEK ULH150 N 15 K FL500	TBD
300	ISOTEK ULH300 N 100 K FL500	ISOTEK ULH300 N 33 K FL500	ISOTEK ULH150 N 15 K FL500	TBD
600	FRIZLEN FZECU400x65-100	FRIZLEN FZECU400x65-33	ISOTEK ULV600 N 15 K FL500	TBD
1000	X	ISOTEK ULV1000 N 33 K FL500	ISOTEK ULV1000 N 15 K FL500	TBD
2000	X	FRIZLEN FZZCU600x65-33	ISOTEK ULM2000 N 15 K	TBD
3000	X	FRIZLEN FGFKU3100602-33	FRIZLEN FGFKU3100602-15	TBD
4000	X	X	FRIZLEN FGFKU3100802-15	