C-more Micro 3-inch EA1 PLC Connections
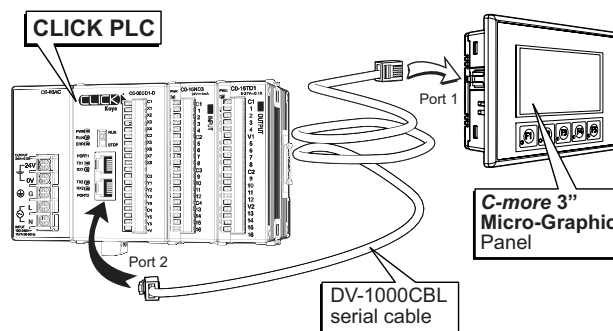
Cabling requirements

The following cables can be used when connecting the *C-more* 3-inch Micro panel's built-in RJ12 serial port (Port1) with the Productivity Series, Do-more/BRX*, CLICK, DL05, DL06, DL105, DL205, D3-350 and DL405 CPUs.

- DV-1000CBL — connects to Productivity Series, Do-more/BRX* CLICK, DL05, DL06, DL105, DL205, D3-350 and D4-450 phone jack.
- D4-1000CBL — connects to all DL405 CPU 15-pin ports.

A maximum cable length of 10 feet between the *C-more* Micro panel and the PLC is recommended when powering the panel from the PLC.

See the Communication Protocols & Cabling Charts in this catalog section for details on the selection of various controllers, protocols, and connectivity.
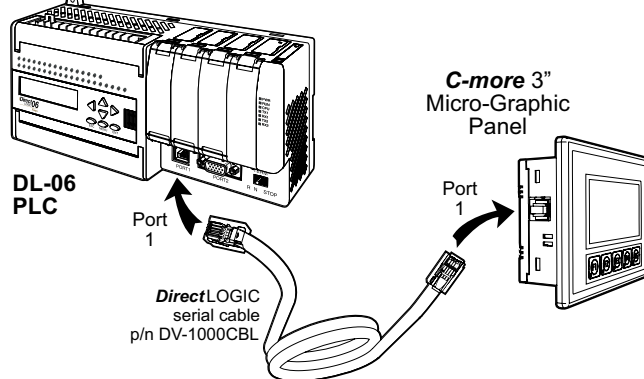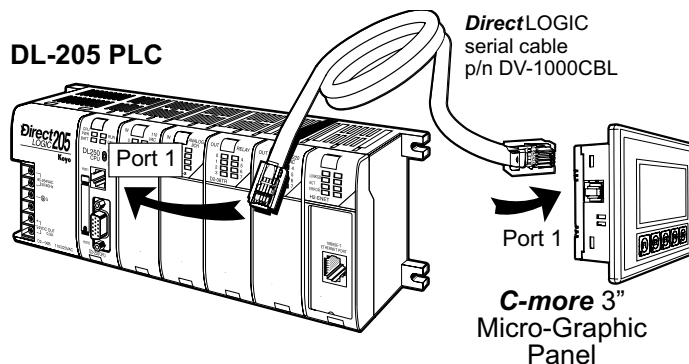
Drivers for your Controller

- AutomationDirect Productivity Series
- AutomationDirect Do-more/BRX*
- AutomationDirect CLICK (Modbus)
- *Direct*LOGIC K-sequence, *Direct*LOGIC *Direct*NET, *Direct*LOGIC Modbus (Koyo Addressing)
- Modbus RTU
- Allen Bradley DF1 Full Duplex, Allen Bradley DF1 Half Duplex, Allen Bradley PLC5 DF1, AB DH485
- Omron Host Link (C200 Adapter, C500) Omron FINS serial (CJ1, CS1)
- GE SNPX (90/30, 90/70, Micro 90, VersaMax Micro)
- Mitsubishi Melsec FX
- Siemens PPI
- Entivity Modbus RTU
- AutomationDirect GS Drives
- AutomationDirect SOLO Temperature Controllers
- Mitsubishi Q/QnA

  * BX-P-SER2-RJ12 is required

C-more 3-inch Micro Port 1 to CLICK PLC Port 2

CLICK PLC

Port 1

C-more 3" **Micro-Graphic** Panel

Port 2

DV-1000CBL serial cable

C-more 3-inch Micro Port 1 to DL06 PLC Port 1

C-more 3" Micro-Graphic Panel

DL-06 PLC

Port 1

Port 1

*Direct*LOGIC serial cable p/n DV-1000CBL

C-more 3-inch Micro Port 1 to DL205 PLC Port 1

DL-205 PLC

*Direct*LOGIC serial cable p/n DV-1000CBL

Port 1

Port 1

C-more 3" Micro-Graphic Panel

C-more Micro 3-inch EA1 Communication Protocols & Cabling Chart

Controller Compatibility & Connection Chart				
PLC			C-more 3-inch Micro Panel.	
			Panel to PLC Cabling Components Required for Specific Port and Protocol being used.	
Family	CPU	Port & Type	PLC Port Powered Powered with 5 VDC from the connected PLC's comm. port.	
			Using panel's RJ12 port 1	
			Protocol(s) Supported	Components & Network Type
CLICK	all versions	Port 1 RJ12 - 6 pin	AutomationDirect Modbus (CLICK)	DV-1000CBL RS-232
		Port 2 RJ12 - 6 pin		
	Analog CPU's	Port 3 Terminal block - 3-pin		N/A
Productivity Series	all versions	RS-232 RJ12 - 6 pin	AutomationDirect Productivity Serial	DV-1000CBL RS-232
		RS-485 Port Term block 3-pin		N/A
Do-more	all versions	Port 2 RJ12 - 6 pin	AutomationDirect Do-more Serial	DV-1000CBL RS-232
BRX	all versions	RS-232 POM module BX-P-SER2-RJ12	AutomationDirect Do-more Serial	DV-1000CBL RS-232
		RS-485 Port Term block 3-pin		N/A
DirectLOGIC DL05 (see D0-DCM under DL06)	all versions	Port 1 RJ12 - 6 pin	K-sequence, *Direct*NET, Modbus RTU	DV-1000CBL RS-232
		Port 2 RJ12 - 6 pin		
DirectLOGIC DL06	all versions	Port 1 RJ12 - 6 pin	K-sequence, *Direct*NET, Modbus RTU	DV-1000CBL RS-232
		Port 2 DB15HD (female)		DV-1000CBL + FA-15HD RS-232
	D0-DCM	Port 1 RJ12 - 6 pin	K-sequence, *Direct*NET, Modbus RTU	DV-1000CBL RS-232
		Port 2 DB15HD (female)		DV-1000CBL + FA-15HD RS-232
DirectLOGIC DL105	all versions	Port 1 RJ12 - 6 pin	K-sequence	DV-1000CBL RS-232

Note: See the *C-more* Micro Hardware User Manual, Chapter 6: PLC Communications, for wiring diagrams that the user can use to construct their own cables. Available for download at www.automationdirect.com. PLC Compatibility & Connection Chart continued on next page.

C-more Micro 3-inch EA1 Communication Protocols & Cabling Chart (cont'd)

Controller Compatibility & Connection Chart				
PLC			**C-more 3-inch Micro Panel.**	
Family	*CPU*	*Port & Type*	Panel to PLC Cabling Components Required for Specific Port and Protocol being used.	
			PLC Port Powered Powered with 5 VDC from the connected PLC's comm. port.	
			Using panel's RJ12 port 1	
			Protocol(s) Supported	Components & Network Type
DirectLOGIC *DL205*	D2-230	Port 1 RJ12 - 6 pin	K-sequence	DV-1000CBL RS-232
	D2-240	Port 1 RJ12 - 6 pin	K-sequence	DV-1000CBL RS-232
		Port 2 RJ12 - 6 pin	K-sequence, *Direct*NET	
	D2-250-1	Port 1 RJ12 - 6 pin	K-sequence, *Direct*NET, Modbus RTU	DV-1000CBL RS-232
		Port 2 DB15HD (female)		DV-1000CBL + FA-15HD RS-232
	D2-260	Port 1 RJ12 - 6 pin	K-sequence, *Direct*NET, Modbus RTU	DV-1000CBL RS-232
		Port 2 DB15HD (female)		DV-1000CBL + FA-15HD RS-232
	D2-DCM	Port 1 DB 25 pin (female)	K-sequence, *Direct*NET, Modbus RTU	See Note RS-232
	WINPLC	Port 1 RJ12 - 6 pin	Modbus RTU	DV-1000CBL RS-232
DirectLOGIC *DL305*	D3-330 or D3-340	D3-232-DCU DB 25 pin (female)	N/A	
		D3-422-DCU DB 25 pin (female)	N/A	
	D3-340	Port 1 RJ11 - 4 pin	N/A	
		Port 2 RJ11 - 4 pin	N/A	
	D3-350	Port 1 RJ12 - 6 pin	K-sequence, *Direct*NET	DV-1000CBL RS-232
		Port 2 DB 25 pin (female)	N/A	
	D3-DCM D3-350 only	Port 1 DB 25 pin (female)	K-sequence, *Direct*NET, Modbus RTU	See Note RS-232

Note: See the *C-more* Micro Hardware User Manual, Chapter 6: PLC Communications, for wiring diagrams that the user can use to construct their own cables. Available for download at www.automationdirect.com. PLC Compatibility & Connection Chart continued on next page.

C-more Micro 3-inch EA1 Communication Protocols & Cabling Chart (cont'd)

Controller Compatibility & Connection Chart				
PLC			**C-more 3-inch Micro Panel.**	
			Panel to PLC Cabling Components Required for Specific Port and Protocol being used.	
			PLC Port Powered Powered with 5 VDC from the connected PLC's comm. port.	
Family	*CPU*	*Port & Type*	Using panel's RJ12 port 1	
			Protocol(s) Supported	Components & Network Type
DirectLOGIC DL405	D4-430	Port 0 DB 15 pin (female)	K-sequence	D4-1000CBL or DV-1000CBL & FA-CABKIT RS-232
		Port 1 DB 25 pin (female)	N/A	
	D4-440	Port 0 DB 15 pin (female)	K-sequence	D4-1000CBL or DV-1000CBL & FA-CABKIT RS-232
		Port 1 DB 25 pin (female)	N/A	
	D4-450 / D4-454	Port 0 DB 15 pin (female)	K-sequence	D4-1000CBL or DV-1000CBL & FA-CABKIT RS-232
		Port 1 DB 25 pin (female)	N/A	
		Port 2 RJ12 - 6 pin	K-sequence, *Direct*NET	DV-1000CBL RS-232
		Port 3 DB 25 pin (female)	N/A	
	D4-DCM	Port 1 DB 25 pin (female)	K-sequence, *Direct*NET, Modbus RTU	See Note RS-232
SOLO	N/A	Data +/- terminals	N/A	
GS Drives	N/A	RS-485 Interface	N/A	

Note: See the *C-more* Micro Hardware User Manual, Chapter 6: PLC Communications, for wiring diagrams that the user can use to construct their own cables. Available for download at www.automationdirect.com. PLC Compatibility & Connection Chart continued on next page.

C-more Micro 3-inch EA1 Communication Protocols & Cabling Chart (cont'd)

Controller Compatibility & Connection Chart				
PLC			**C-more 3-inch Micro Panel.**	
			Panel to PLC Cabling Components Required for Specific Port and Protocol being used.	
			PLC Port Powered Powered with 5 VDC from the connected PLC's comm. port.	
Family	*CPU*	*Port & Type*	Using panel's RJ12 port 1	
			Protocol(s) Supported	Components & Network Type
Allen-Bradley MicroLogix	1000, 1100, 1200, 1400, 1500	8-pin mini-din port		
		RJ45 8-pin phone plug		
Allen-Bradley SLC500	5/03, 5/04, 5/05	9-pin D-sub port		
	5/01, 5/02, 5/03	RJ45 8-pin phone plug		
Allen-Bradley ControlLogix	all	9-pin D-sub port		
Allen-Bradley CompactLogix	all	9-pin D-sub port		
Allen-Bradley FlexLogix	all	9-pin D-sub port		
Allen-Bradley PLC5	all	25-pin D-sub port		
		RJ45 8-pin phone plug		
GE	90/30	15-pin D-sub port	N/A	
	Micro 90, VersaMax Micro	RJ45 Port 1		
		15-pin D-sub port Port 2		
Mitsubishi	Melsec FX Series	25-pin D-sub port		
		8-pin mini-din port		
	Q / QnA	9-pin D-sub port		
		6-pin mini-din port		
Omron	C200 (Adapter), C500	25-pin D-sub port		
	CJ1, CS1, CQM1, CPM1, CPM2, C200	9-pin D-sub port		
Modicon	984 CPU, Quantum 113 CPU, AEG Modicon Micro Series 110 CPU	varies		
Siemens	S7-200 CPU	9-pin D-sub port 0 or 1		

Note: See the *C-more* Micro Hardware User Manual, Chapter 6: PLC Communications, for wiring diagrams that the user can use to construct their own cables. Available for download at www.automationdirect.com. Available cables with descriptions shown on the next page.

C-more Micro 3-inch EA1 Communication Cables and Cable Kits

Cable Description	Cable Part Number	Price
Cables for direct connect to panel's serial Port1 (Panel powered from PLC's serial port.)		
AutomationDirect communication cable, 6-pin RJ12 to 6-pin RJ12, 2m/6.6ft cable length. For use with DV-1000 or *C-more* Micro panels and AutomationDirect PLCs with an RJ12 port.	*DV-1000CBL*	$--04lj:
AutomationDirect communication cable, 6-pin RJ12 to 15-pin male D-sub, shielded, 2m/6.6ft cable length. For use with DV-1000 or *C-more* Micro panels and any DL405 CPU.	*D4-1000CBL*	$--04li:
*Direct*LOGIC DL06 connector, 15-pin D-sub HD15 male to RJ12 female. For use with DL06 CPUs and DL205 D2-250, D2-250-1, D2-260 and D2-262 CPUs.	*FA-15HD*	$;08zf:
*Direct*LOGIC universal cable kit, for use with all DirectLOGIC PLCs with RS-232 ports.	*FA-CABKIT*	$08za:

DV-1000CBL

D4-1000CBL

FA-15HD

FA-CABKIT