Allen Bradley DF1 / DH485 Master Drivers

Information Sheet for Crimson v2.0

Compatible Devices

- Allen-Bradley PLC-5, SLC, MicroLogix
- Allen-Bradley ControlLogix (INT, DINT, REAL data types only)

Verified Devices

SLC 5/03, MicroLogix 1500

Excluded Devices

SLC 5/00 (via DH485)

Device Selection

Many PLC-5 users may use the SLC device selection. In order to use the SLC device selection, the PLC-5 processor must have the ability to respond to "protected typed logical write with three address fields" commands.
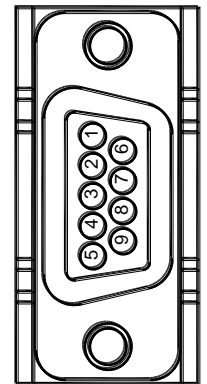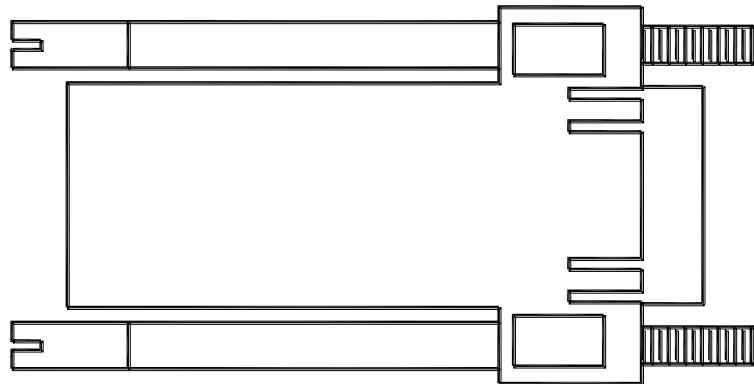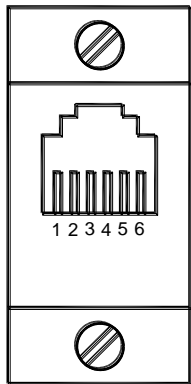
Accessible Data

Prefix	Description
O	Outputs**
I	Inputs**
S	Status
B	Bits
N	Integers
T	Timers
C	Counters
F	Float Point
L	Long Word
R	String Area (80 characters support) * – DF1 only

* When mapping the String Area to String Arrays, 80 characters per string should be used.
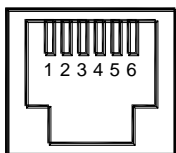** SLC 5/00, SLC 5/01, SLC 5/02 Fixed I/O processor are not supported.

Communication Cable, G3 / Modular Controller / Data Station Plus to Allen Bradley SLC500 via DF1.

 # CBLAB001 – 10' long

1 2 3 4 5 6

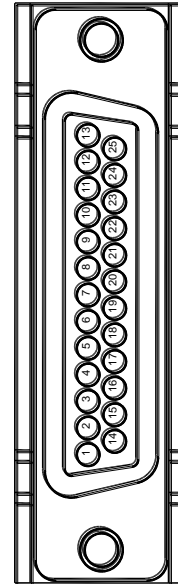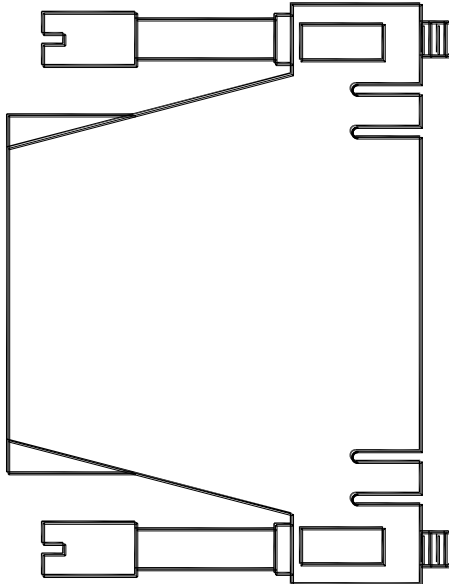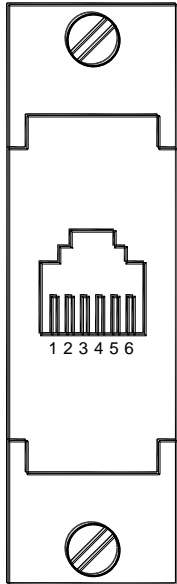| Connections			
FROM RLC UNIT	Name	CONNECTER PINOUT	
		RJ12	DB9 FEMALE
1	CTS	1	-
2	Rx	2	3
3	COMM	3	5
4	COMM	4	-
5	Tx	5	2
6	RTS	6	-
-	-	-	1,6,7,8

The above table denotes the pin names of the RS232 port.
When connecting, the pin name at the RS232 port is connected
to the opposite of that pin name at the destination device.
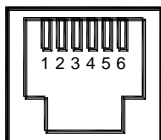
1 2 3 4 5 6

RS232 PORT
(FROM RLC UNIT)

Communication Cable, G3 / Modular Controller / Data Station Plus to Allen Bradley PLC-5 via Channel 0.

CBLAB002 – 10' long

1 2 3 4 5 6

1 2 3 4 5 6

RS232 PORT
(FROM RLC UNIT)

Connections			
FROM RLC UNIT	Name	CONNECTER PINOUT	
		RJ12	DB25 MALE
1	CTS	1	-
2	Rx	2	2
3	COMM	3	7
4	COMM	4	-
5	Tx	5	3
6	RTS	6	5,6,8

The above table denotes the pin names of the RS232 port.
When connecting, the pin name at the RS232 port is connected
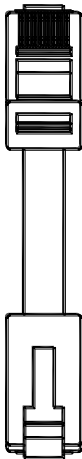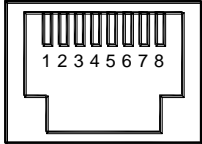to the opposite of that pin name at the destination device.

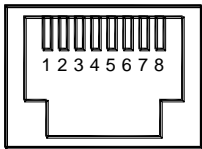**Communication Cable, G3 / Modular Controller / Data Station Plus to Allen Bradley SLC500 via DH485.**

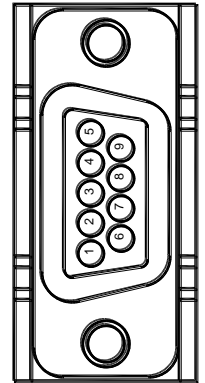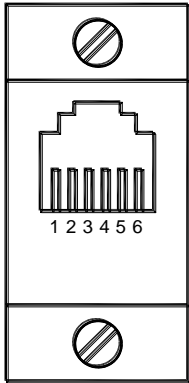**# CBLAB003 – 10' long**

RS485 PORT
(TO A-B UNIT)

1 2 3 4 5 6 7 8

Connections			
RJ45: RLC	Name	RJ45: A-B	Name
1	TxB	1	A
2	TxA	2	B
3, 8	RxA	-	-
4, 7	RxB	-	-
5	TxEN	5	TxEN
6	COMM	7	COMM
4, 7	TxB	-	-
3, 8	TxA	-	-

The above table denotes the pin names of the RS485 port.
When connecting, the pin name at the RS485 port is connected
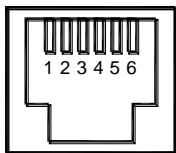to the opposite of that pin name at the destination device.

1 2 3 4 5 6 7 8

RS485 PORT
(FROM RLC UNIT)

Communication Cable, G3 / Modular Controller / Data Station Plus to generic RS232.
 # CBLGEN01 – 10' long

Connections			
FROM RLC UNIT	Name	CONNECTER PINOUT	
		RJ12	DB9 MALE
1	CTS	1, 6	-
2	Rx	2	2
3	COMM	3	5
4	COMM	4	-
5	Tx	5	3
6	RTS	1, 6	-

The above table denotes the pin names of the RS232 port.
When connecting, the pin name at the RS232 port is connected
to the opposite of that pin name at the destination device.

RS232 PORT
(FROM RLC UNIT)

Revision History

11/04/11 – Updated information regarding SLC 5/01 and SLC 5/02.