Connecting Communications — RS-422/485
1. Connect RS-422/485 communications converter to MDrive and PC.
2. Install the communication converter drivers onto PC (available online).
3. Install and open Motion Control Programmer.
4. Apply power to MDrive.
5. Within Motion Control Programmer, click into the Terminal Window (shown below).
6. Key in CTRL+C. The MDrive sign-on message should appear, verifying that communications is active.

Connecting Communications — CANopen
A “Getting Started” tutorial using the IMS CANopen Tester GUI with the MD-CC500-000 USB to CANopen dongle is located in the CANopen implementation manual, available online.
MDrive 17
Motion Control
Connectivity Options

I/O & Power

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10-pin Wire Crimp

Prototype Development Cable p/n: PD16-1417-FL3

Communications — CANopen version

I/O & Power

Mating Connector Kit p/n: CK-10

Use to make your own cables, kit contains 5 mating connector shells with crimp pins. JST crimp tool recommended.

JST Parts Shell: PADS-16V-1-S
Pins: SPH-001T-P0.5L

Communications — CANopen version

Communications Converter p/n: MD-CC500-000

Electricaly isolated in-line USB to CANopen converter. USB “A” Type connector to DB-9 (Male). An Interface cable must be constructed by the user to interface to the MDrive.

Mating Cable Requirements

The following diagram illustrates the parts and connections for an interface cable connecting the MD-CC500-000 to the MDrive.

Comm Gnd

TX+

RX+

Aux-Logic

RX-

TX-

Comm Gnd

Mating Connector Kit p/n: CK-01

Use to make your own cables, kit contains 5 mating connector shells for making interface cables.

IDC Parts Shell: SAMTEC TCS05-05-01-N
Ribbon Cable: AMP 1-57051-9

Communications — RS-422/485

10-pin I/O

Communications Converter p/n: MD-CC400-001

Electricaly isolated in-line USB to RS-422/485 converter pre-wired with mating connector to conveniently program and set configuration parameters.

Mating Connector Kit p/n: CK-02

Use to make your own cables, kit contains 5 mating connector shells with crimp pins. Hirose crimp tool recommended.

Hirose Parts Shell: DF11-10DS-2C
Pins: DF11-2428SC

Communications — RS-422/485

10-pin I/O