Connecting Power and I/O
Your MDrive is configured with power and I/O on separate connectors. Please refer to the opposite side of this document for connecting details and available connectivity options including Prototype Development Cables and mating Connector Kits.

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. Apply power to MDrive.
4. Within Motion Control Programmer, click into the Terminal Window (shown below).
5. Key in Ctrl+C. The MDrive sign-on message:

Getting Started
All documentation, software and resources are available online at: motion.schneider-electric.com.
### MDrive 34 Connectivity Options

**I/O & Remote Encoder**
- **Pin 1**: CAN-L
- **Pin 2**: CAN-H
- **Pin 5**: CAN-Shield
- **Pin 7**: CAN-H
- **Pin 8**: CAN-V
- **Pin 10**: CAN-V

**I/O**
- **Pin 1**: CH A+
- **Pin 2**: CH B+
- **Pin 3**: IDX+
- **Pin 4**: IDX-
- **Pin 5**: CH A-
- **Pin 6**: CH B-
- **Pin 7**: GND

**Prototype Development Cable**
- **P1**: 14-pin wire crimp
- **P2**: 20-pin wire crimp
- **P3**: 2-pin wire crimp

**Communications**
- **RS-422/485**
- **CANopen**

**Power**
- **Pin 1**: GND

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### Mating Connector Kit
- **P1**: JST connector 14-pin wire crimp
- **P2**: Molex connector 2-pin wire crimp
- **P3**: Hirose Molex connector 2-pin wire crimp

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**Prototype Development Cable p/n: PD14-2334-FL3**
- 14-pin wire crimp
- To MDrive
- Use for I/O and Remote Encoder

**Prototype Development Cable p/n: PD10-1434-FL3**
- 10-pin wire crimp
- To MDrive
- Molex connector 2-pin wire crimp

**Prototype Development Cable p/n: PD02-3400-FL3**
- 2-pin wire crimp
- Molex connector

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**Mating Connector Kit p/n: CK-02**
- Use to make your own cables, kit contains 5 mating connector shells with crimp pins.

**Mating Connector Kit p/n: CK-05**
- Use to make your own cables, kit contains 5 mating connector shells with crimp pins.

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**Communications Converter p/n: MD-CC402-001**
- Electrically isolated in-line USB to RS-422/485 converter pre-wired with mating connector to conveniently program and set configuration parameters.

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**Mating Connector Kit p/n: CK-09**
- Use to make your own cables, kit contains 5 mating connector shells with crimp pins.

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**Prototype Development Cable p/n: PD02-3400-FL3**
- Function: Power Interface

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**Communications Converter p/n: MD-CC500-000**
- Electrically isolated in-line USB to CANopen converter. USB ‘A’ Type connector to DB-9 (male). An interface cable must be constructed by the user.

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**Prototype Cable p/n: PD14-2334-FL3**
- Speed test and development with pre-wired mating connector.

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**Prototype Development Cable p/n: PD10-1434-FL3**
- Speed test and development with pre-wired mating connector. Recommended for multi-drop systems, can be used in conjunction with the MD-CC402-001.

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**Communications — RS-422/485**

<table>
<thead>
<tr>
<th>Function</th>
<th>Connector Style</th>
<th>Pin 1: CAN-Wire</th>
<th>Pin 2: CAN-Wire</th>
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<td>Power</td>
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<td>14-pin Wire Crimp</td>
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<tr>
<td>10-pin Wire Crimp</td>
<td>10-pin Wire Crimp</td>
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<td>DB-9</td>
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<td>Communications</td>
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<td>(CANopen)</td>
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**Communications — CANopen version**

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</tbody>
</table>

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**Power**
- **Pin 1**: GND
- **Pin 2**: Power

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**Prototype Development Cable p/n: PD02-3400-FL3**
- Function: Power Interface

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**Molex Parts**
- Shell: 510-07-0200
- PINS: 502-17-91011

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**JST Parts**
- Shell: SPH-001T-P0.5L
- PINS: SPH-001T-P0.5L

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