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: 
   "Copyright 2001-2017 by Schneider Electric Motion USA."
   should appear, verifying that communications is active.

Connecting Communications — CANopen
A "Getting Started" tutorial using the CANopen Tester GUI with the MD-CC500-000 USB to CANopen dongle is located in the CANopen implementation manual, available online.

Getting Started
All documentation, software and resources are available online at: motion.schneider-electric.com.

Notes and Warnings
Installation, configuration and maintenance must be carried out by qualified technicians only. You must have detailed information to be able to carry out this work. This information can be found in the user manuals.

• Unexpected dangers may be encountered when working with this product!
• Incorrect use may destroy this product and connected components!

The user manuals are not included. You can obtain them from the Internet at:

Required for Setup*
• PC running Microsoft® Windows XP Service Pack 2 or greater.
• I/O and Power interface to 19-pin M23 industrial connector (recommendation: MD-CC501-000). Depending on your MDrive connectors configuration, you may also need:
  • I/O and Power interface to 19-pin M23 industrial connector (recommendation: MD-CC500-000)!

* If you purchased your MDrive with a QuickStart Kit, you have received all of the connecting cables needed for initial functional setup and system testing.

Getting Started
All documentation, software and resources are available online at: motion.schneider-electric.com.

Connecting Power and I/O
Your MDrive is configured with power and I/O combined on a single connector. Please refer to the opposite side of this document for connecting details and available connectivity options including Prototype Development Cables and mating connector recommendations.

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MDrive 23 IP65
Motion Control
Connectivity Options

I/O and Power
19-pin M23 industrial connector (male)

Prototye Development Cable
p/n (straight connector): MD-CS100-000
p/n (right-angle connector): MD-CS101-000
Pre-wired mating connector interfaces to an MDrive 19-pin M23 circular connector, with flying leads other end, for quick test/development.

Communications — RS-422/485
5-pin M12 industrial connector (female)

Communications Converter p/n: MD-CC401-001
Electrically isolated in-line USB to RS-422/485 converter pre-wired with mating connector to conveniently program and set configuration parameters.

Mating Connector Recommendations
The MD-CS100-000 is recommended with 19-pin M23 connector.
For comparable connector only, shop vendors:
Lumberg
Phoenix
Turck
RDE Connectors

Mating Connector Recommendations
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Communications — CANopen version
M12 (male)

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 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.
Parts Required:
- Connectors: (1) DB-9 (female), (1) 5-pin M12 (female)
- Power Supply: +7 to +30 VDC
- Terminating Resistor: 120 Ω 1%

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