DEVICE FUNCTIONS

A00485R USB-RS485/RS422 Adapter Cable with RJ Connector RJ9/RJ10/RJ11/RJ12/RJ45

Features:

- USB RS485/RS422 signal conversion
- Virtual COM port device driver
- Half-duplex data communication
- Modular plug connector (RJ9/RJ10/RJ11/RJ12/RJ45)
- Short stub
- Customer defined connector pin assignments
- ESD, EFT, and surge protection
- Unshielded, or copper foil and tinned copper braid shielded
- USB bus powered, Rx 14mA, Tx 17mA (PTP)
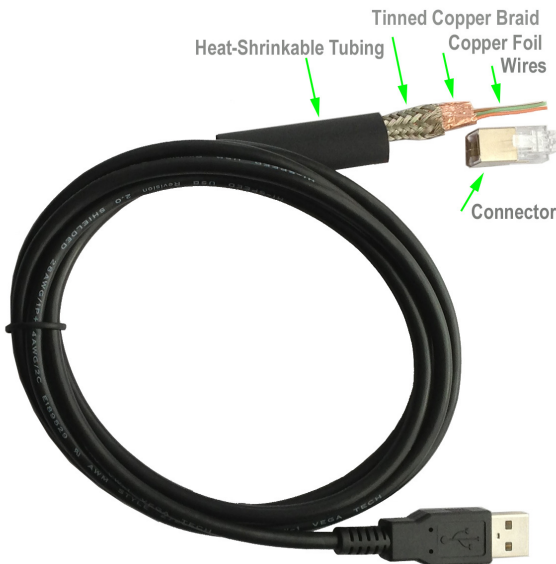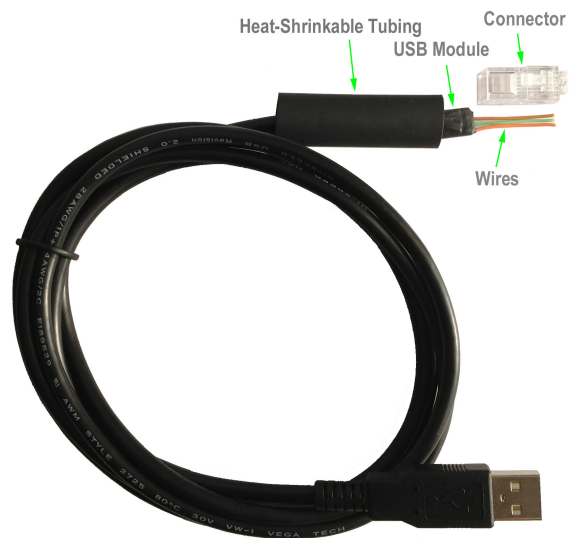- 2m cable length

Specifications:

USB	USB specification 2.0 compliant
	USB full speed 12Mbps transmission
	USB type A plug connector
RS485/RS422	Half-duplex transceiver
	1/8-unit-load receiver input impedance or up to 256 transceivers on one bus
	True fail-safe receiver
	No integral 120Ohm termination resistor
	4P4C, 6P6C, or 8P8C modular plug connector
	Baud rate: 300bps to 115200bps
	Parity: Even, Odd, None, Mark, Space
	Data length: 5-bit, 6-bit, 7-bit, 8-bit
	Stop bits: 1-bit, 2-bit
Power	USB bus powered, receiving 14mA, transmitting 17mA (Point-to-Point)
Software	32-bit and 64-bit virtual COM port device driver for Microsoft Windows 8, Windows 7, Windows Vista, Windows XP.

Ready-To-Assemble Products:

Shielded Finish

Tinned Copper Braid
Copper Foil
Heat-Shrinkable Tubing
Wires
Connector

Unshielded Finish

Heat-Shrinkable Tubing
USB Module
Connector
Wires

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Assembling and RS485/RS422 Signals

The modular plug connector can be assembled by us if pin assignments are provided. The pins of the 4P4C, 6P6C, 8P8C plug connectors are numbered sequentially 1 to 4, 1 to 6, 1 to 8. Pin 1 is on the left when the connector is viewed with the retention mechanism on the bottom and the cable opening toward the viewer. An integral 120 Ohm termination resistor can be installed if requested. RS485/RS422 signals are,

Pin1

Conductor Color	RS485/RS422 Signal
Green	TxD+/RxD+ (A)
Orange	TxD-/RxD- (B)
Brown	GND (C)

Ordering Information

Part Number	Connector Type	Shielding	RJ Connector
A00485R44B	4P4C	Unshielded	RJ9, RJ10, RJ22
A00485R66S	6P6C	Shielded	RJ11, RJ12, RJ14, RJ25
A00485R66B	6P6C	Unshielded	RJ11, RJ12, RJ14, RJ25
A00485R88S	8P8C	Shielded	RJ45
A00485R88B	8P8C	Unshielded	RJ45

System Requirements

Configuring RS485/RS422 serial settings on a PC requires:
- Microsoft Windows 8, Windows 7, Windows Vista, or Windows XP
- eeTerminal (download from www.devicefunctions.com)

Device Driver Installation:

The software package is supplied in a compressed folder file named *USB_COM_1P_Driver* or a CD. Here are the installation steps.

1. If you have file *USB_COM_1P_Driver*, rename *USB_COM_1P_Driver* to *USB_COM_1P_Driver.zip*, extract all files to a file folder on your local disk or USB drive, double click *setup.exe* to start software installation.
2. If you have the software CD, insert the software CD into your computer's disc drive, the software installation will start automatically.
3. Follow the on-screen instructions until the setup wizard finishes.
4. Plug the adapter's USB cable to the computer's USB port.
5. Follow the on-screen instructions if any to complete the software installation.

Accessories

eeTerminal: Configure, read, and write USB-RS485/RS422 cables. Upload/download files.