Sure Cross® 1-Wire Serial to USB Adapter Cable

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Datasheet

- Connects Sure Cross® 1-wire serial sensors to a Windows PC USB port and supplies power to the sensor
- Supports baud rates of 9600, 19200, and 38400
- Converts a 1-wire serial interface with a M12 connector to USB
- Supports 32-bit and 64-bit configurations of Windows XP, Windows 7, Windows 10, and Windows Vista
- Download the free Sensor Configuration Software

Model: **BWA-USB1WIRE-001**—1-wire serial interface to USB, 1 meter long

When plugging this cable into your computer for the first time, give the cable one to two minutes to check your computer for the proper driver, download the driver, then install it. When the cable is ready for use, the green LED will be on. Plug the cable into your 1-wire serial sensor. The cable should then supply enough power to the sensor to configure it. For additional information, updated documentation, and a list of accessories, refer to Banner Engineering's website, www.bannerengineering.com.

5-pin M12 Female Connection

Table 1: 5-pin M12 female connection wiring

5-pin M12 Female Quick Disconnect	Pin	Wire Color	Sensor Wiring
	1	Brown	5 V DC
	2	White	not used
	3	Blue	DC common (GND)
	4	Black	not used
	5	Gray	1-wire serial communication

Specifications

Input Power
5 V DC from USB port

Current
5 mA at the PC, single sensor (not intended to power multiple Banner sensors)

Operating Parameters
–40 °C to +80 °C (–40 °F to +176 °F)
95% maximum relative humidity (non-condensing)

USB
Connector: USB type A plug
Standard: 2.0

1-Wire Serial Interface
9.6k, 19.2k (default), or 38.4k; 8 data bits; 1 stop bit; no parity (default), even parity, or odd parity
Connector: M12 connector compatible with Banner *Flex*Power Node with Serial Interface, 5 V DC power output

1-Wire Serial Sensors
M12FTH4Q Temperature and Humidity Sensor
M12FT4Q Temperature Sensor
QM30VT1 Vibration and Temperature Sensor
K50UX1ARA and **K50UX1CRA** U-GAGE K50U Ultrasonic Sensor

Length
1 meter (This cable can be extended up to 30 meters.)

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