# Sure Cross® 1-Wire Serial to USB Adapter Cable



## Datasheet



- Connects Sure Cross<sup>®</sup> 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 Euro-style connector to USB
- Supports 32-bit and 64-bit configurations of Windows XP, Windows 7, and Windows Vista
- Download the Sensor Configuration Software free from Banner Engineering's website: www.bannerengineering.com

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/Euro-style Connection (Female)

5-pin M12/Euro-style Connection (female)	Pin	Wire Color	Sensor Wiring
1 000 3 5	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

 $5~\mathrm{mA}$  at the PC, single sensor (not intended to power multiple Banner sensors)

## Operating Parameters

–40 °C to +80 °C (–40 °F to +176 °F) Humidity: Up to 95% 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: Euro-style connector compatible with Banner FlexPower 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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