

Sure Cross® 1-Wire Serial to USB Adapter Cable



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 Euro-style connector to USB
- Supports 32-bit and 64-bit configurations of Windows XP, Windows 7, and Windows Vista
- Download the Sensor Configuration Tool software free from Banner Engineering's Wireless I/O Products website: www.bannerengineering.com/surecross.

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 accessories, refer to Banner Engineering's website, www.bannerengineering.com/surecross.

Models	Adapter	Length
BWA-USB1WIRE-001	1-wire serial interface to USB	1 meter

5-pin M12/Euro-style Connection (Female)

5-pin M12/Euro-style Connection (female)	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

Temperature: -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
QM42VT1 Vibration and Temperature Sensor
K50UX1RA U-GAGE K50U Ultrasonic Sensor

Length

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



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