

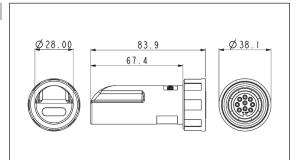
Buccaneer® Bluetooth Cable Replacement

BLUETOOTH CABLE REPLACEMENT RS485/RS232





- Dust & waterproof to IP68 EN60529 when mated
- RS485 & RS232 Serial data to Bluetooth Adapter
- Wireless transparent data connection
- Self connecting for true cable replacement
- Up to 100m range (class 1)
- Built-in sealed antenna



Part No.	Description
PX0885/01/M	Master unit, IP68 rated, Bluetooth Class I
PX0885/02/M	Master unit, IP68 rated, Bluetooth Class 2
PX0885/01/S	Slave unit, IP68 rated, Bluetooth Class I
PX0885/02/S	Slave unit, IP68 rated, Bluetooth Class 2

Description

Buccaneer Bluetooth cable replacement products eliminate data cables and allow equipment with RS485 or RS232 data ports to communicate using wireless Bluetooth technology.

The IP68 rated environmentally sealed enclosure protects against the ingress of dust and moisture, so the units can be used in numerous harsh or hostile applications. They can be mounted internally or externally for maximum flexibility, convenience and also for optimum range.

These units can be used when cables are difficult, impractical or expensive to install, for example: between different buildings, between walls or floors, around other obstructions, or open field sites. With a wireless communication range of up to 100m, significant savings could be made over a hard-wired solution in terms of installation time, disruption and cost.

Wireless Point-to-Point or Multi-Drop data connections can be made quickly and easily between serial interfaces or dumb devices and work transparently without any need for a PC, PLC or Bluetooth software.

The Master and Slave units automatically establish a data link between themselves, no intervention or special serial commands are required, enabling fast and cost-effective cable replacement or data network extension. The Master will automatically connect with up to six Slave units to form a multi-drop network.

The units require a DC power supply between 6 and 24 Volts DC. Wired communication data connections can be made via pins 3, 4, 5 and 9. Data types RS232, RS422 and RS485 are supported and the desired mode can be configured via connector pin 7. Half Duplex or Full Duplex modes are selected via connector pin 2. Configuration modes are selected by linking the relevant pin to ground or by leaving the pin open circuit.

The product features a translucent status window, through which five LEDs are visible to indicate the device status: Power on (Green LED), RS232 mode, RS485 mode, configuration problem (Red LED), and Bluetooth connected (Blue LED)

If required, the communication Baud rate, parity, stop bits and flow control can be re-configured using a software application, download from http://www.bulgin.co.uk/software/. The factory default settings are: 9600, N, 8, 1 without flow control, and the products will self-connect and work straight out-of-the box without any intervention or adjustment.

Typical applications:

Water industry Environmental monitoring Energy management Factory monitoring Plant and machinery Transport/traffic systems Vehicle communications - tractor/trailer

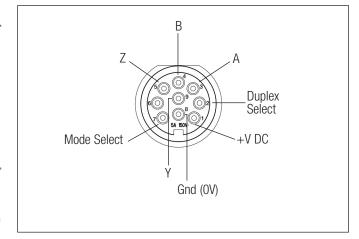
SPECIFICATION

Serial Interface				
Interface Type Baud rates Data format	RS485 (4-wire) full-duplex RS485 (2-wire) half-duplex RS232 (4-wire) full-duplex 9600 (default), 19200, 38400, 57600 8 data bits, no parity bit and 1 stop bit (default) Contact factory for other formats Select RS485/RS232 using pin 7 Select Half/Full duplex using pin 2			
Bluetooth				
Protocol Classification Frequency band Security settings PC Software	Bluetooth V2 Class I +7dBm** up to100m* range Class 2 +3.5dBm** up to 25m*range 2.4GHz unlicensed ISM band Authentication, encryption and pin code Optional windows configuration software			
Mechanical				
Sealing Operating Temp. Storage Temp. Vibration Shock Free Fall Mates with	IP68, EN60529, when mated -20 to +70°C -30 to +85°C EN 60068-2-6, 5g EN 60068-2-27, 15g EN 60068-2-32 PX0727/S, PX0708/S/09, PX0707/S/09, PX0762/S & PX0769/S, PX0884			
Electrical				
DC Supply Electromagnetic Compatibility EMC Immunity	6 to 24Vdc EMC Directive 2004/108/EC EN61326:2006 Immunity - Industrial environmer EN61000-4-2:1995 Electrostatic Discharges (ESI EN61000-4-3:2006 Radiated Immunity,10 V/m EN61000-4-4:2004 Fast Transient & Bursts EN61000-4-5:2006 Surges EN61000-4-6 1996 Conducted disturbances			
EMC Emissions	EN 61326-1:2006 Measurement, control and laboratory equipment EN55011 Group 1 Class B:2007 Industrial, scientific and medical equipment FCC Part 15 Class B			
Approvals:	CE Mark FCC Compliant ROHS RoHS Compliant			
Material				
Body Moulding Lens Flame retardancy Contacts	Nylon Nylon UL94V-0 Copper alloy, Gold plated			

Connection Diagram

- Pin 1 DC Supply Voltage 6 to 24V dc (ensure correct polarity)
- Pin 2 Duplex select. Connect to Gnd for half. Leave open circuit for full
- Pin 6 Not used
- Pin 7 Mode select. Connect to Gnd for RS485. Leave open circuit for RS232
- Pin 8 Gnd (0V)

Mode	Duplex	Pin 3 A	Pin 4 B	Pin 9 Y	Pin 5 Z
RS232	Full Duplex	RX	CTS	RTS	TX
RS422	Full Duplex	A Input	B Input	A Output	B Output
RS485	Half Duplex	Not used	Not used	А	В



Notes: * range is dependent on prevailing conditions

** minimum output power at maximum power setting