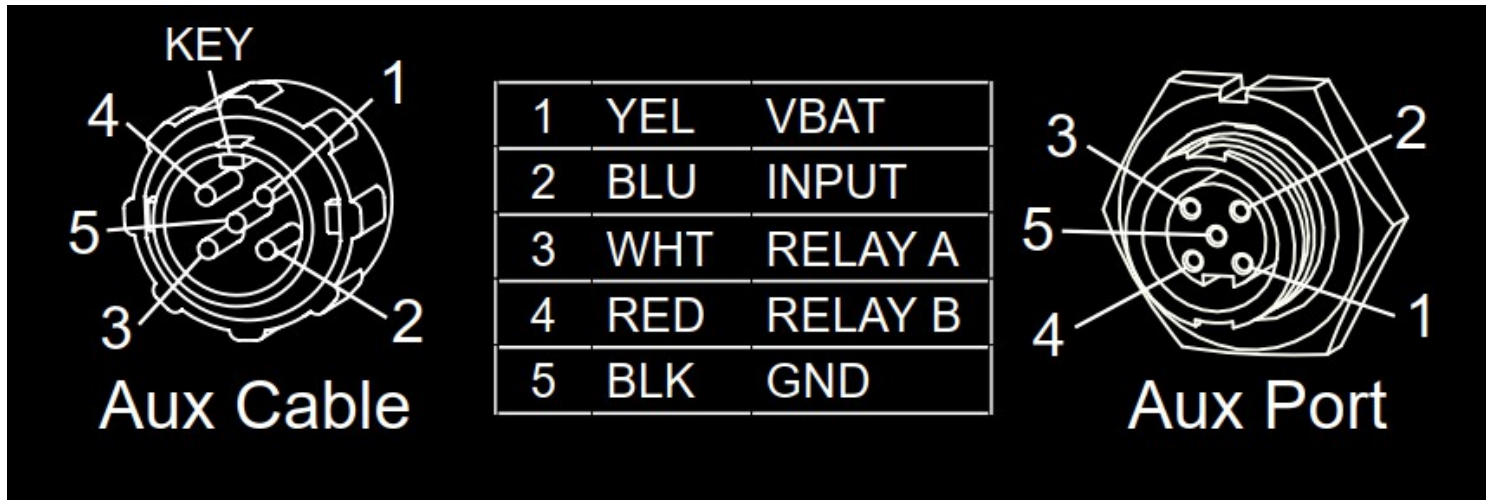Smart Battery Pack Auxiliary Cable for use with the Activator or External Input functions of the X80 BT Echo.

Pin	Cable Wire Color	Name	Description
1	YEL	VBAT	12V battery voltage (always on).
2	BLU	INPUT	Input to the Echo from an external device. Typically this may come from a ground sensor with a "dry contact" or "open collector" output. The device should switch INPUT to GND to turn the input on. DO NOT APPLY VOLTAGE to the pin. The External Input for the Echo must be enabled in X-Series Network Manager Software.
3	WHT	RELAY A	The relay output is a "dry contact" output (RELAY A and RELAY B). There is no voltage present on the pins. When it is activated from X-Series Network Manager Software, the normally open contacts will close and there will be continuity between the RELAY A and RELAY B pins. This can be used to connect to devices such as gate controllers that have extra push-button or auxiliary switch inputs, or any other device that requires a "dry contact" to operate. The maximum current through the relay must be less than 1 Amp. (For alternate wiring see Note 1 below.) (See Note 2 below for safety.)
4	RED	RELAY B	
5	BLK	GND	Ground for the 12V battery.

1. If it is required to switch 12V on and off to an external device, such as a solenoid that requires 12V to operate, RELAY A (WHT wire) must be connected to VBAT (YEL wire). This can be done with a wire nut, or they can be connected at the terminal strip if you have the optional junction box. When connected in this way, there will be 12V present between RELAY B (RED wire) and GND (BLK wire) when "Activate" is selected for the Echo in X-Series Network Manager Software. The maximum current draw must be limited to less than 1 Amp.

2. **Warning** : If the relay output is used to operate an electrical or electro-mechanical device, it is the responsibility of the user to ensure that such devices are operated in a safe manner and that any necessary safety interlocks or warning signs are in place. It should never be considered a "fail-safe" device and should never be used in an application where a failure to operate properly may result in a risk of personal injury or loss of life.