

# T02-00034-ABAA Telemetry Cable/Horn Relay Installation Instructions

## Introduction

The T02-00034-ABAA cable can be used to connect to the input and output lines of the auxiliary connector of TM8000 and TM9000 mobile radios.

The cable also provides a line for ignition sense and a relay driver for switching a 12 V relay.


**Notice** The radio does not meet the IP54 protection standard once the bung covering the radio's auxiliary connector has been removed.

**Notice** The cable may not be suitable for use in high-temperature environments such as the engine compartment.



## Hardware Configuration for Ignition Sense

The radio hardware link LK2 (on the top-side of the radio's main board) must be fitted for ignition sense operation. The following table describes the configuration options.

 LK2 is fitted by default.

### Configuration of hardware links for ignition sense

Link required	Voltages required for T02-00034-ABAA
LK2 in (factory default)	Ignition signal $\leq 0.9\text{V}$ (or floating) = off Ignition signal $\geq 5\text{V}$ = on Ignition-sense compatible with 24V vehicular systems (34V max.)

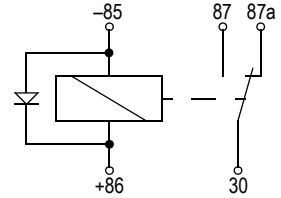
## Relay and Relay Driver

The cable is supplied with a relay (rated 12V/30A, with built-in suppression diode) and a relay socket (including crimp terminals).



Although the product can drive any similar automotive relay with a 12 V coil that draws no more the 500mA in operation, Tait recommends a type with a built-in suppression diode for EMC purposes but this is not required for correct operation of the product.

Relay terminal assignment:



The relay driver of the T02-00034-ABAA is controlled by AUX\_GPIO4 which must be programmed as an Active Low output. Refer to the Help of the radio programming application for more information.

## Interface Information

### T02-00034-ABAA interface information

Pin	Signal	Cable	Color
8	+13V_SW (positive relay terminal)	3.3ft (1m) of red/black twin pair cable	red
10	AUX_GPIO4 (via FET to negative relay terminal)		black
4	AUX_GPI3 (ignition sense)	3.3ft (1m) single yellow cable 3.3ft (1m) of 6-core cable, green cable not connected.	yellow
12	AUX_GPI1		yellow
5	AUX_GPI2 (emergency)		white
9	AUX_GPIO6		red
1	AUX_GPIO7		blue
15	Ground		black

The relay outputs of the T02-00034-ABAA cable are protected by two SMD fuses located on the circuit board inside the connector housing. For servicing information refer to the radio's service manual.

## More Information

For more information on this product contact your radio provider.