

**labRFC (Code 3789)**

Active adapter for conversion between HEADlink connections and a CAT5 cable



**Features**

- Active adapter for loss-free conversion between HEADlink connections and a CAT5 cable
- between a controller and an input module (the total length can be up to 60 m / 197 ft long)
- between two controllers (the total length can be up to 180 m / 590 ft long)
- Cross-over switch for using standard LAN cables or cross-over cables
- Signal conditioning (repeater function) for loss-free data transfer
- Supply voltage for the connected input module looped through
- labRFC adapters powered by the controller

**Scope of supply**

- labRFC (Code 3789)  
Active adapter for conversion between HEADlink connections and a CAT5 cable

**Optional**

- CLL X.xx (Code 3780-xx)  
Cable Lemo 8-pin ↔ Lemo 8-pin (HEADlink cable), max. 60 m

**Overview**

The labRFC adapter allows a HEADlink connection to be converted to a CAT5 cable (RJ45 connector).

Two labRFC adapters are required. Using HEADlink cables, they are connected to the controller and to the input module or the second controller. A CAT5 cable is used between the two labRFC adapters.

When using, for example, a CAT5 ribbon cable, the connection can be easily led through a car door. Thanks to the cross-over function, it is also possible to use a standard LAN cable (CAT5).

The total length of all cables between a controller and an input module is 60 m / 197 ft. The supply voltage for the signal module is looped through the connection.

For the synchronization of two controllers, both controllers must have a separate power supply. Each of the two HEADlink cables and the CAT5 cable can have a total length of up to 60 m. This means that a maximum cable length of 180 m / 590 ft is possible.



## Technical Data

### General

Connections:	1 x Lemo 8-pin / 1 x RJ45 (CAT5)
Power supply:	24 V, the power is supplied by the controller
Power input:	8 mA
Power consumption:	0.2 W
Max. cable length <i>labCTRL 1.x (HEADlink) → input module (HEADlink):</i>	total cable length: 60 m (197 ft) (HEADlink cable → <i>labRFC</i> → CAT5 cable → <i>labRFC</i> → HEADlink cable)
 <i>labCTRL 1.1 (HEADlink) → labCTRL 1.2 (Sync In)</i> or <i>labCTRL 1.2 (Sync Out) → labCTRL 1.2 (Sync In):</i>	 total cable length: 180 m (590 ft) (HEADlink cable: max. 60 m → <i>labRFC</i> → CAT5 cable: max. 60 m → <i>labRFC</i> → HEADlink cable: max. 60 m)
Dimensions:	72 x 78 x 28 mm (WxDxH) (2.8" x 3.1" x 1.1")
Weight:	130 g (0.28 lb)
Temperature operating:	-20 °C to 50 °C (-4 °F to 122 °F) (0 to 90 % r.h., not condensing)
Temperature storage:	-20 °C to 70 °C (-4 °F to 158 °F)