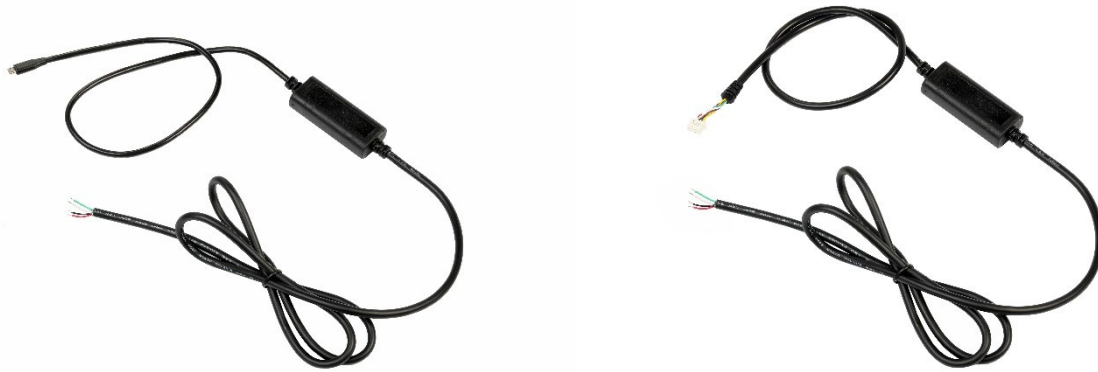# CABLE ADAPTER 48V
DCA48 / DC-DC CONVERTER

ELATEC's cable adapter 48V has been specifically developed to connect ELATEC readers on power sources up to 48V. The cable adapter 48V supports multiple interfaces, i.e. USB, RS-232 and Wiegand. The IP68 housing and the robust construction allow a usage in rough environments and a wide range of applications.

Special features:

+ Operates up to 48V input voltage
+ Two Interface options: USB or RS-232 with Wiegand or Clock/data
+ IP68 housing, ideal for rough environments
+ Individual cable lengths and connectors on request
+ 3D construction data (STEP) available on request

Elevator | EV Chargers | Access | Shop POS | Fitness Equipment | Ticket POS | PC Log-on | Document Management | Driver ID | Vending | Parking | Gaming | Locker Locks | Time Attendance | Industrial PC

TECHNICAL DATA

HOUSING	Material: Polyamide UL94-V0, color: black
DIMENSIONS (L X W X H)	Housing: 60 mm x 24 mm x 15 mm / 2.36 inch x 0.95 inch x 0.59 inch
DC VOLTAGE	48V
INPUT VOLTAGE	Requires 9-48V
OUTOUT VOLTAGE	5V
OUTPUT RATED CURRENT	0.5A
TEMPERATURE RANGE	Operating: -40 °C up to +85 °C (-40 °F up to +185 °F) Storage: -40 °C up to +85 °C (-40 °F up to +185 °F)
MTBF	500,000 hours
SUPPORTED INTERFACES	USB, RS-232, Wiegand or Clock/Data (depending on variant)
TRANSMISSION SPEED	Host: USB Full speed (12 Mbit/s), RS-232: up to 115,200 baud
CERTIFICATION NAME	DCA48
CERTIFICATION(S)	CE[1], FCC[1], REACH and RoHS-III compliant
Order Code(s)	CABA-4BD4BAX DCA48 / Cable Adapter 48V, USB version Reader: DF11, 45cm cable; Power: open end, 100cm cable CABA-4BU4BAX DCA48 / Cable Adapter 48V, USB version Reader: Micro USB, 45cm cable; Power: open end, 1m cable CABA-4RD4BAX DCA48 / Cable Adapter 48V, RS-232 version Reader: DF11, 45cm cable; Power: open end, 1m cable Individual cable lengths and connectors on request

[1] Pending

INPUT

The input cable is an open-end cable with wires with stripped insulation. The cable strand is tinned. Therefore, the cable can easily be soldered to a connector or PCB. If connected to a terminal block, it is mandatory to cut the tinned cable strand and remove the isolation.

If a connector is required, ELATEC can deliver the cable with the preferred connector on request.

Depending on the version of the Cable Adapter 48V, there are two types of input cables: the USB version is equipped with a 4-wire input cable, whereas the RS-232 version comes with a 6-wire input cable.

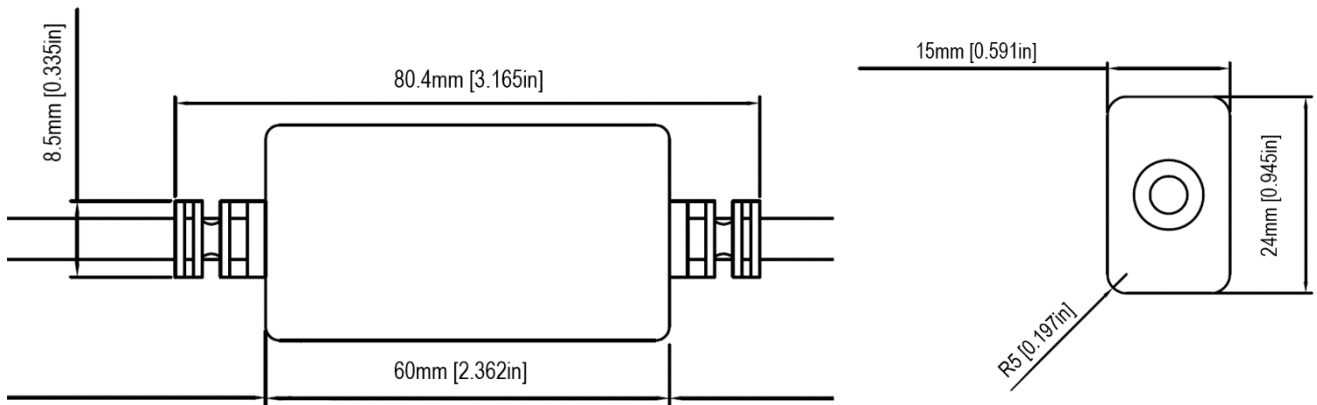| SIGNAL NAME	USB COLOR	RS-232 COLOR
GROUND	Black	Black
VIN 48V	Red	Red
USB D+	Green	-
USB D-	White	-
V24 RXD	-	Brown
V24 TXD	-	White
DATA / D0 (WIEGAND)	-	Green
CLK / D1 (WIEGAND)	-	Yellow

OUTPUT

There are two variants of the Cable Adapter 48V: USB and RS-232. The USB version is available with two different main connectors.

VERSION	CONNECTOR
USB	DF11
USB	Micro USB
RS-232	DF11

Different cable lengths for input and output cable are available on request.

80.4mm [3.165in]

8.5mm [0.335in]

60mm [2.362in]

15mm [0.591in]

24mm [0.945in]

R5 [0.197in]