

# ISO-CAB.B USB Isolator

isolating, protecting and ground-breaking USB 2.0 Fullspeed Isolator



- High reinforced isolation of 4kVrms
- Certified to EN60601-1, 3rd Edition
- For all medical and industrial applications
- Isolated energy transfer to secondary side
- For USB full speed devices, no software needed
- Simple replacement for standard USB cable
- Detailed status indication
- Made in Germany, 3 years warranty

## Protection and security for human, device and PC

The USB isolator cable effects a potential decoupling of all USB connections. It is the professional tool to avoid and fight ground loops and equalizing currents and to protect against overvoltage.

Its high isolating voltage and the full certification according to EN60601-1 gives protection in all medical and sensitive industrial applications.

## Its special features

Extra save and easy usage by simple inserting the isolated cable before the standard USB cable, no further connections necessary.

Transfers up to 500mA from the primary USB connector to the secondary side for USB supplied devices.

Isolates the 'normal' PC systems from the critical application.

Energy transformer with reinforced isolation.

## Scope of delivery

**ISOUSB-Cable-B Set:** USB isolator cable 2m with USB plug A to PC and USB plug B to device.

High 4kV isolation for data and energy plus additional transient absorber ensures high application security.

High contact protection through the completely encapsulated housing allows using the device in harsh environments.

Display of the connection status with two LEDs:

- Orange: Cable connected to PC and ready
- Orange-Green: Establishing connection or standby
- Green: USB communication established and active

## Technical data

<b>Construction</b>	Isolating cable for direct connection to non-isolating USB cables, complete isolation of all lines including ground
<b>Connectors</b>	Cable with plugs Type A and Type B.
<b>Isolation strength</b>	4000Vrms 1 minute , 6000Vpk1 second, permanent working range 250Vrms
<b>Transient protection</b>	Integrated protection diodes with approval ±8kV acc. to IEC 61000-4-2.
<b>Energy transfer</b>	Primary to secondary max. 2.5W, 500mA, about 75% efficiency, short-circuit proof.
<b>Coupling capacity</b>	About 1.5nF
<b>Data transmission</b>	Full speed communication competely transparent and invisible.
<b>Working environment</b>	0-40 °C (32-100 °F), 20 to 90% humidity, non-condensing.
<b>Storage environment</b>	-40 to +70 °C, 10 to 100% humidity.
<b>Certification</b>	According to EN60601-1:2007, 3rd Edition, CE and FCC requirements fulfilled.
<b>Scope of delivery</b>	USB isolation cable 2m, Plugs Type A and B.
<b>Dimension</b>	Cable 2m with centered housing 78mm x 37mm x 20mm (length, wide, height), weight about 100g.