

ISO-CAB.A 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-Cab.A Set: USB isolator cable 50cm with USB plug A to PC and USB jack A 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

Construction	Isolating cable for direct connection to non-isolating USB cables, complete isolation of all lines including ground
Connectors	Cable with plug Type A and jack Type A.
Isolation strength	4000Vrms 1 minute , 6000Vpk1 second, permanent working range 250Vrms
Transient protection	Integrated protection diodes with approval ±8kV acc. to IEC 61000-4-2.
Energy transfer	Primary to secondary max. 2.5W, 500mA, about 75% efficiency, short-circuit proof.
Coupling capacity	About 1.5nF
Data transmission	Full speed communication completely transparent and invisible.
Working environment	0-40 °C (32-100 °F), 20 to 90% humidity, non-condensing.
Storage environment	-40 to +70 °C, 10 to 100% humidity.
Certification	According to EN60601-1:2007, 3rd Edition, CE and FCC requirements fulfilled.
Scope of delivery	USB isolation cable 50cm, Plug Type A and jack Type A.
Dimension	Cable 50cm with centered housing 78mm x 37mm x 20mm (length, wide, height), weight about 90g.