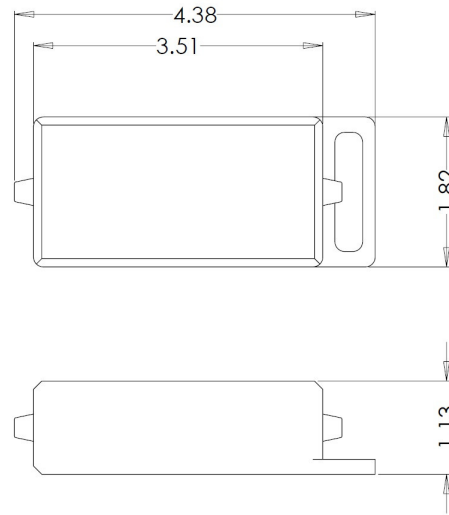


# SealSO Single Port Ruggedized Inline USB Isolator Cable (UL Recognized)

[sealevel.com/product/iso-1r-seaiso-single-port-ruggedized-inline-usb-isolator-cable-ul-recognized](https://sealevel.com/product/iso-1r-seaiso-single-port-ruggedized-inline-usb-isolator-cable-ul-recognized)





**Part:** ISO-1R **Model:** SealISO Rugged USB Isolator

\$149.00

- Protects host and field equipment from damaging surges and transients
- UL Recognized in accordance with EN60601-1 3rd Edition requirements
- Features medical-grade 4 kV isolation, data and power
- Powered by USB host connection; supports energy transfer with isolation
- Ruggedized construction using molded connectors with overmold “bump” in the cable design

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## Description

The SealISO™ ISO-1R is a single-port, ruggedized inline USB isolator cable that offers a simple method of protecting host and field equipment from damaging transients and surges commonly found in commercial, industrial and medical environments. The ISO-1R is UL Recognized, in accordance with EN60601-1 3rd Edition, and protects both the data and power lines with 4 kV of medical-grade isolation between the host control system and connected USB equipment.

The ISO-1R utilizes Sealevel’s expertise in military-grade designs by incorporating a ruggedized, TPE overmolded cable “bump” that improves the reliability and durability in medical, industrial and mobile applications. The isolator is essentially a 6 foot, ruggedized USB cable extender. The “bump” includes an integrated loop for convenient hanging or mounting. The host connector is a Type A right-angle USB connector. The other end has a high-retention Type A Female USB connector that helps prevent accidental cable disconnections.

The ISO-1R is USB bus powered, eliminating the need for external power. The efficient DC/DC design allows energy transfer over the isolation barrier. The isolator provides up to 300 mA to a downstream USB device when connected to a standard 500 mA USB port. Additionally, the isolator provides a full 500 mA to a downstream device when connected to a USB port capable of sourcing 1 A, or greater.

Supported in Microsoft Windows, Linux, and other USB aware operating systems, the ISO-1 requires no separate drivers and is easy to install. Simply plug the isolator into an available USB port with the included cable, and it is automatically recognized as a generic USB hub device. The ISO-1 is a USB 2.0 compatible device connecting to the host over a high-speed link and features full-speed (12 Mbps) data rates between the downstream USB device.

Standard operating temperature range is -20°C to 60°C and extended temperature ranges are optional. If you need a USB isolator with removable cables, see the [ISO-1](#). If you need an OEM USB isolator to integrate into your application, see the [ISO-1-OEM](#).

Note: This item is intended for OEM applications and a minimum order quantity (MOQ) may apply. For low volume applications and testing, please use the [ISO-1](#) or [ISO-1-OEM](#) versions. Please contact your sales representative with any questions.

Category: [SealSO USB Isolators](#)

## Additional information

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<b>Family</b>	SealSO
<b>Certifications</b>	EN60601-1 3rd Edition, FCC, CE
<b>Communications Chip</b>	USB Hub
<b>Dimensions</b>	Overmold: 4.0" (L) x 2.0" (W) x 1.1" (H) – 72" Overall Cable Length
<b>Humidity Range</b>	10 – 90% Relative Humidity, Non-Condensing
<b>Host Interface(s)</b>	USB
<b>Max Data Distance</b>	5 M
<b>Max Data Rate</b>	12 Mbps (Device Connection)
<b>Operating Temperature</b>	-20°C to 60°C (-4°F to 140°F)

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<b># of Ports</b>	1
<b>Power Requirement</b>	USB +5V @ 200 mA (Max)
<b>RoHS Compliant</b>	Yes
<b>Storage Temperature</b>	-40°C to 85°C (-40°F to 185°F)
<b>Upstream Isolation</b>	4 kV Isolation
<b>USB Specification</b>	2.0 Compatible (Host Connection)

Protects host and field equipment from damaging surges and transients  
 UL Recognized in accordance with EN60601-1 3rd Edition requirements  
 Features medical-grade 4 kV isolation, data and power  
 Powered by USB host connection; supports energy transfer with isolation  
 Maximum of 1.1 A output current when connected to a high-power USB port  
 Provides 300 mA to downstream USB devices when connected to standard 500 mA USB port  
 Provides 500 mA to downstream USB devices when connected to 1 A USB port  
 USB 2.0 compatible device supports full-speed 12 Mbps operation  
 Supported in Microsoft Windows, Linux and other USB aware operating systems  
 Ruggedized construction using molded connectors with overmold “bump” in the cable design  
 Total cable and device length of 72 inches  
 Compliant with CE, FCC, RoHS and WEEE directives

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