

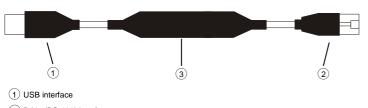
# **USB-CONVERTERCABLE**

Manual

## **Overview**

The USB-CONVERTERCABLE provides bi-directional connectivity between any standard USB compliant host system and Hitachi inverters with built in RS-422 interface accessible via the RJ45 modular / interconnect communication port.

Hardware design of the USB-CONVERTERCABLE



- 2 RJ45 (RS-422) interface
- 3 Converter

## **Specifications**

Operating temperature range: 5 to 40°C Storage temperature: -20 to +70°C Total cable length: 2 meters USB version: version 1.1 Optical isolation: no Serial interface RS-422, RJ45 plug compatible with SJ200 inverters

Max current: 120mA at 5VDC Max humidity: 85%

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## Installation

The inverter has a communication port with a RJ45 connector accessible on the front of the device. It may be necessary to remove the keypad, depending on the inverter model. On the personal computer side the cable requires any standard USB type A port compliant with Universal Serial Bus Specification 1.1.

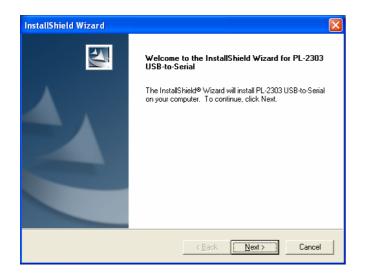
The proper operation of the interface in the computer requires the installation of a device driver. The device driver can be downloaded from the following link download/s

The file to be downloaded is the one identified with "UR42 driver".

System requirements for driver installation: Pentium II or higher Windows 98/ME/NT/2000/XP 64MB RAM 1GB hard disk space

The driver comes in a self-installing executable file with the name "ur42.exe"; the installation of the driver must be done BEFORE connecting the converter to the USB port of the computer.

To install the driver, launch the ur42.exe executable file, then follow the instructions on screen. You must accept the terms of the license agreement to complete the installation procedure.



## Connections

## RJ-45 (RS422) interface



Pin	Name
1	None
2	A+
3	A-
4	GND
5	B+
6	B-
7	GND

None

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Description
Positive TX (RS-422)
Negative TX (RS-422) Ground
Positive RX (RS-422)
Negative RX (RS-422)
Ground

USB interface



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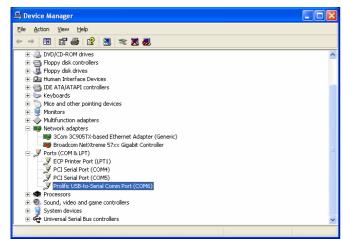
InstallShield Wizard
License Agreement Please read the following license agreement carefully.
Press the PAGE DOWN key to see the rest of the agreement.
End User License Agreement ("EULA") Do not install or use the software until you have read and accepted all of the license terms. Permission to use the software is conditional upon your agreeing to the license terms. Installation or use of the software by you will be deemed to be acceptance of the license terms. Acceptance will bind you to the license terms in a legally enforceable contract with Prolific Technology Inc. "SOFTWARE LICENSE AND LIMITED WARRANTY This is an agreement between you, the end user, and Prolific Technology Inc. ("Prolific").
Do you accept all the terms of the preceding License Agreement? If you choose No, the setup will close. To install PL-2303 USB-to-Serial, you must accept this agreement.
nstallShield < <u>B</u> ack <u>Y</u> es <u>N</u> o

Click Finish to complete the installation, now you can plug the converter to the USB port of the computer

InstallShield Wizard	
5	InstallShield Wizard Complete InstallShield already successfully to installed PL-2303 USB to-Serial driver. Please press [Finish] button to close and out of InstallShield.
	If you have been plugged cable on PC before run this setup, please unplug and then plug cable again for system detect this device!
	< Back <b>Finish</b> Cancel

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You can check the Device Manager and see the Prolific USB-to-Serial Comm Port (COM Port)



### Uninstalling the device Driver

If you want to remove the USB-CONVERTERCABLE device driver, follow the steps: Launch the ur42.exe executable file Select the Uninstaller Driver! Option and click on Next

Setup Type			
Choose the setup type that best su	its your needs.		
Importants Message! You already li	nstalled driver, to select one	of items to operate it	
C Re-install (Upgrade)!			
Uninstaller driver!			
C Exit Setup!			
		News C	
	< <u>B</u> ack	<u>N</u> ext>	Cancel

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#### Working with the USB-CONVERTERCABLE

#### **Technical Safety Notes**

#### Qualified personnel

The device should only be used by qualified personnel. Qualified personnel as referred to in safety guidelines in this documentation are persons who are authorized to commission, ground, and tag circuits, equipment, and systems in accordance with established safety practice.



The equipment/system or the system components may only be used for the applications described in the catalog or the technical description, and only in combination with the equipment, components, and devices of other manufacturers as far as this is recommended or permitted by Hitachi.

The product will function correctly and safely only it is transported, stored, set up, and installed as intended, and operated and maintained with care.

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The products have been designed for use in an industrial environment in compliance with the 2004/108/CE directive.

The products have been designed in compliance with: EN 61000-6-4

EN 61000-6-2

The installation of these devices into the residential, commercial and light-industrial environments is allowed only in the case that special measures are taken in order to get the conformity to EN-61000-6.3.

Note: USB-CONVERTERCABLE is not applicable to WEEE. The converter cable is only used for Industrial INV and not used for IT or consumer products.

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