



VIPA Connectivity

for PROFIBUS & PROFINET

PROFIBUS plug

**- optimized housing
- improved insulation
- excellent contact
features**

ERR
Term
TxD
PWR

0°



Art.no. 972-ODP30

45°



Art.no. 972-ODP20

90° also available
without LEDs



Art.no. 972-ODP10
Art.no. 972-ODP01
without LEDs

VIPA EasyConn plugs are for PROFIBUS users. The diagnostic LEDs, integrated as standard, are clearly visible from all sides making this plug a standard for all your PROFIBUS installations. The full metal housing additionally improves the interference immunity of your system. Of course we support transmission rates of up to 12MBit/s.

If you have never used EasyConn plugs, why not simply try them! You will be impressed!

Features:

- Visual terminal control (polarity inversion, positioning of screen and cable)
- The highest interference immunity due to the robust full metal construction
- Integrated diagnostic LEDs for bus diagnosis as standard
- Easy IDC technology for fast and reliable wire connection
- Lossless single-screw-mounting system - no loose parts
- Integrated terminating resistors which can be switched on and off
- Versions: 0°, 45° and 90° cable outlet
- We also offer you an integrated PG diagnostic port in versions 45° and 90° cable outlets

! All EasyConn plugs are also available as a value pack of 100. !

EasyStrip



Art.no. 905-6AA00

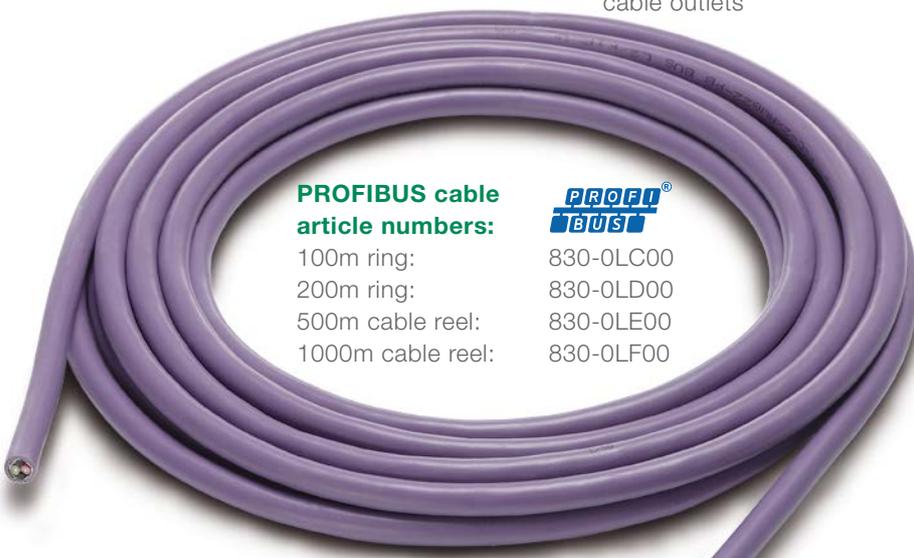
With the VIPA EasyStrip stripping tool a fast and easy connection of EasyConn plugs to your PROFIBUS line can be achieved.

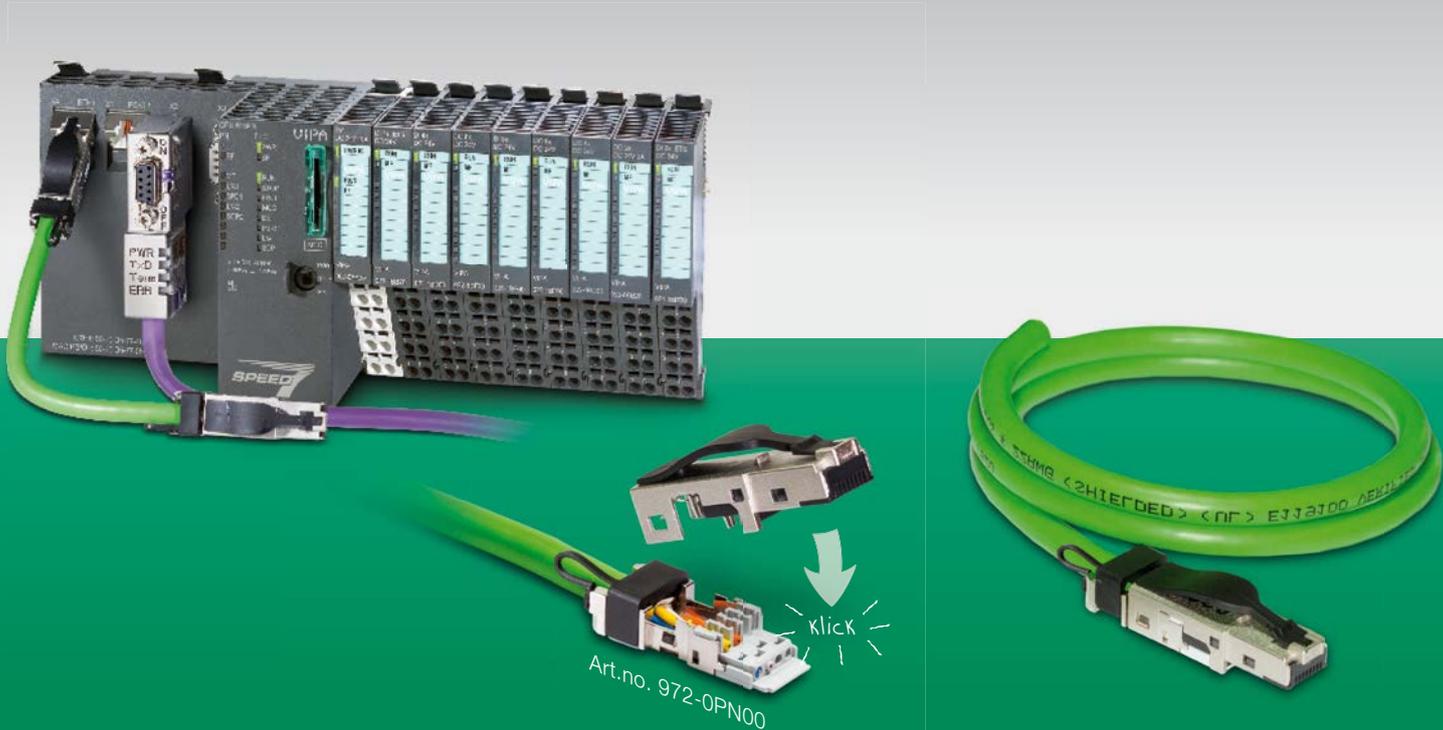
The sophisticated construction of our PROFIBUS connection enables the deployment of the EasyStrip tool with which the braided shield and the outer sheath can be separated in a single step.

The connection of these lines, which are so prepared, is made through the robust IDC technology in the EasyConn plugs.

PROFIBUS cable article numbers:

100m ring:	830-0LC00
200m ring:	830-0LD00
500m cable reel:	830-0LE00
1000m cable reel:	830-0LF00





The PROFIBUS plugs from VIPA can be deployed in many ways. Whether in the office, in industry or for building wiring – the plug always makes a good impression. The efforts needed for mounting are obviously reduced due to the fact that the plug consists of only 2 parts.

These field-configured plugs are characterized by very easy handling and high robustness. Of course the assembly is done tool-free. The plugs are compatible to existing standards and are suitable for the connection of fixed and flexible wires. Within a few moments the assembly is accomplished.

We offer you the plugs individually, but also of course in a value pack of 10.

Value pack of 10: 972-8PN00

Features

- Consisting of only 2 parts
- A field-configurable and multiport capable Cat-6A plug
- Transmission rate 10GBit, suitable in accordance with IEEE 802.3an
- 8 wire field-configurable RJ45 plug for AWG 22
- Zinc die-cast housing suitable for harsh industrial environments
- Protected lock hook
- Very easy assembly without special tools

Did you already know?

Our plugs are usable in many additional Ethernet fieldbus systems, such as EtherCAT and EtherNET/IP!

EtherCAT®

EtherNet/IP®

PROFINET cable article numbers:

100m ring:	830-0PC00
200m ring:	830-0PD00
500m cable reel:	830-0PE00
1000m cable reel:	830-0PF00

PROFIBUS Hub B5



Art.no. 973-5BE00

Advantage overview

- Installation and removal of slaves during operation
- The highest protection through short circuit safety in each segment
- Compact and robust installation
- Display with status and error indication for each channel
- DB9 and screw contacts can both be used at the same time
- Suitable for all DP cables
- High flexibility due to easy expandable networks

The ProfiHub B5 is an advanced, flexible and robust IP20 repeater for Profibus DP installations. With this, it is possible to create spur lines and backbone structures with star and tree structures in an IP20 environment.

As innovative components for these kinds of applications, the ProfiHub B5 is nearly perfect. It is a perfect and economic solution for building up operationally reliable spur lines in high speed DP networks. It has the functionality of a transparent 5-times repeater with galvanic isolated channels.

This allows network structures with extended spur lines that can individually handle up to 31 devices and have a length equal to the main bus line.

The ProfiHub B5 refreshes the received messages on a channel and forwards them to all other channels.

As the ProfiHub B5 creates galvanic isolated segments, the devices can now be removed and added during

operation. Furthermore electrical disturbances on the bus and EMC interferences on the spur line do not spread to other segments.

The intelligent logic and the isolation circuits of the ProfiHub B5 ensure that the Bit width remains unchanged. Therefore there are no limitations for the serial interconnection with ProfiHub devices. The intelligent logic detects the transmission speed automatically.

To simplify the installation work the termination is already integrated by terminating resistors and can be switched on and off.

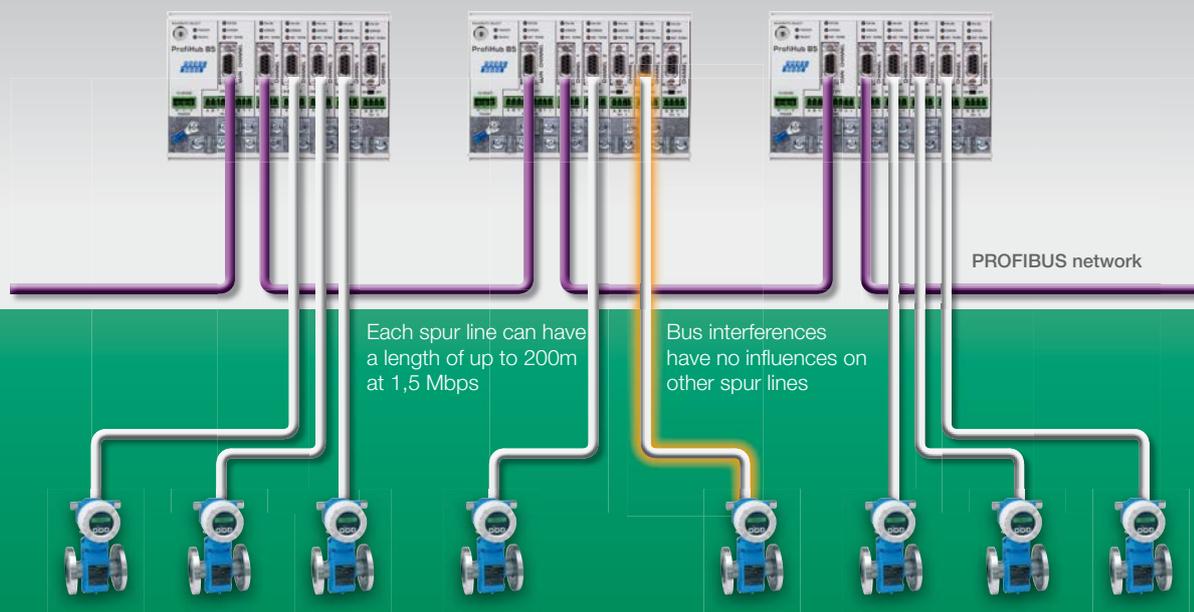
Also the grounding concept is selectable: direct or capacitive grounding. The ProfiHubs are powered with 10 to 32 Volts DC. For troubleshooting, maintenance and commissioning the ProfiHub B5 is equipped with LEDs, which indicate the status of each channel.

Create reliable, flexible and object

related DP installations with the ProfiHub B5.

The ProfiHub B5 is an important and decisive solution in maintenance, if practical and cost-efficient set up or hot swapping is required.





Examples for dynamic spur lines to periphery devices with the possibility of removing or adding devices during operation. For each spur line one short circuit protection is available automatically.

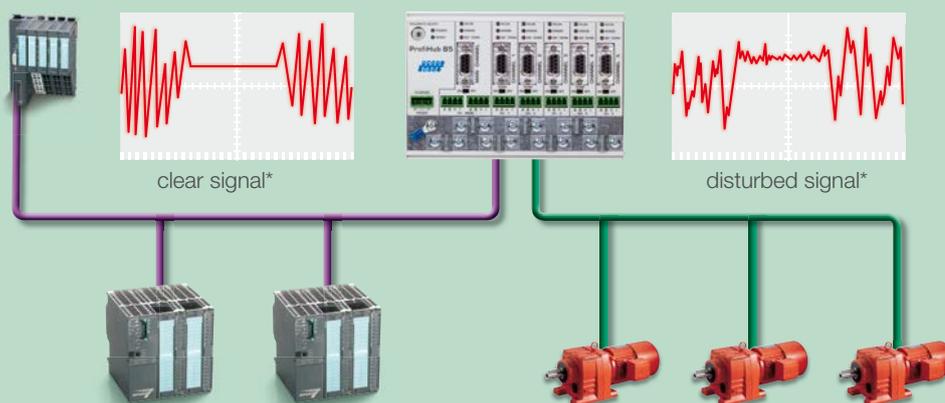
Product features B5

- 5 galvanic isolated channels (repeater segments)
- Transparent for all PROFIBUS and MPI protocols
- Up to 31 users per channel
- 9,6 Kbps - 12 Mbps (automatic baud rate detection)
- 1200 m spur line length (depends on transmission speed)
- Monitoring of glitches (Peaks)
- No limitation at the serial or cascading interconnection
- No PROFIBUS address required
- Integrated terminating resistor (disconnectable)
- LED display to indicate the termination
- Screw contacts as well as DB9 connections available
- Protection class IP20 (according to DIN 40 050)
- No software configuration necessary

Field of application

- Dynamic spur lines to rotary drive, flowmeter, pH analyser, etc.
- Draggable and pluggable motor control center
- EMV sensitive applications
- Roof mounted devices in tank facilities
- Dirty and humid environment
- Protection against non-galvanic isolated devices
- Large star and tree form structured networks

The protection function of the ProfiHub B5 is a barrier for electrically sensitive segments. The signal quality of the main network and of the other channels remains trouble-free.



* symbolic figure

PROFIBUS Repeater B1



Advantage overview

- The highest protection by short circuit safety in each segment
- Highest availabilities
- Compact and robust design
- Suitable for all kinds of DP cables
- Low current consumptions
- Clearly arranged networks
- High flexibility by easy expandable installations

The compact PROFIBUS-Repeater B1

offers an economic alternative to the competitors and overcomes the technological limitations of the existing repeaters. This first class network component fulfills the high electrical, mechanical and diagnostic requirements of the modern industry.

The expanded 12Mbps core of the B1 is identical to the ProfiHub B5. It can be cascaded without limit and is equipped with an insulated RS485 interface. The data is constantly monitored for glitches (Peaks) which are digitally filtered out. Each channel has switchable terminating resistors on board and is able to support up to 31 devices.

The removable screw terminals of the PROFIBUS interface are arranged in a way that reversal mounting does not impact existing wiring. A DB9 connection is provided for maintenance and engineering tools.

The power supply is redundant which makes the B1 especially suitable for applications in which high availability is required.

Electrical

- 1 insulated channel (2 segments)
- Increased signal strength
- Up to 31 devices per segment connectable



- Up to 1200 m cable length (depending on transmission rate)
- No limitation at the cascading interconnection
- Redundant power supply (19..28 VDC)

Protocol

- Transparent for all PROFIBUS and MPI protocols
- 9,6 Kbps - 12 Mbps (automatic Baud rate detection)
- No PROFIBUS address required

Mechanical

- Installed terminating resistors (individually switchable)
- Diagnosis LEDs for status indication on the bus
- Removable screw contacts and 1 DB9 contact
- Mounting on DIN rail
- IP20 classification (according to DIN 40 050)
- Housing suitable for harsh industrial environments