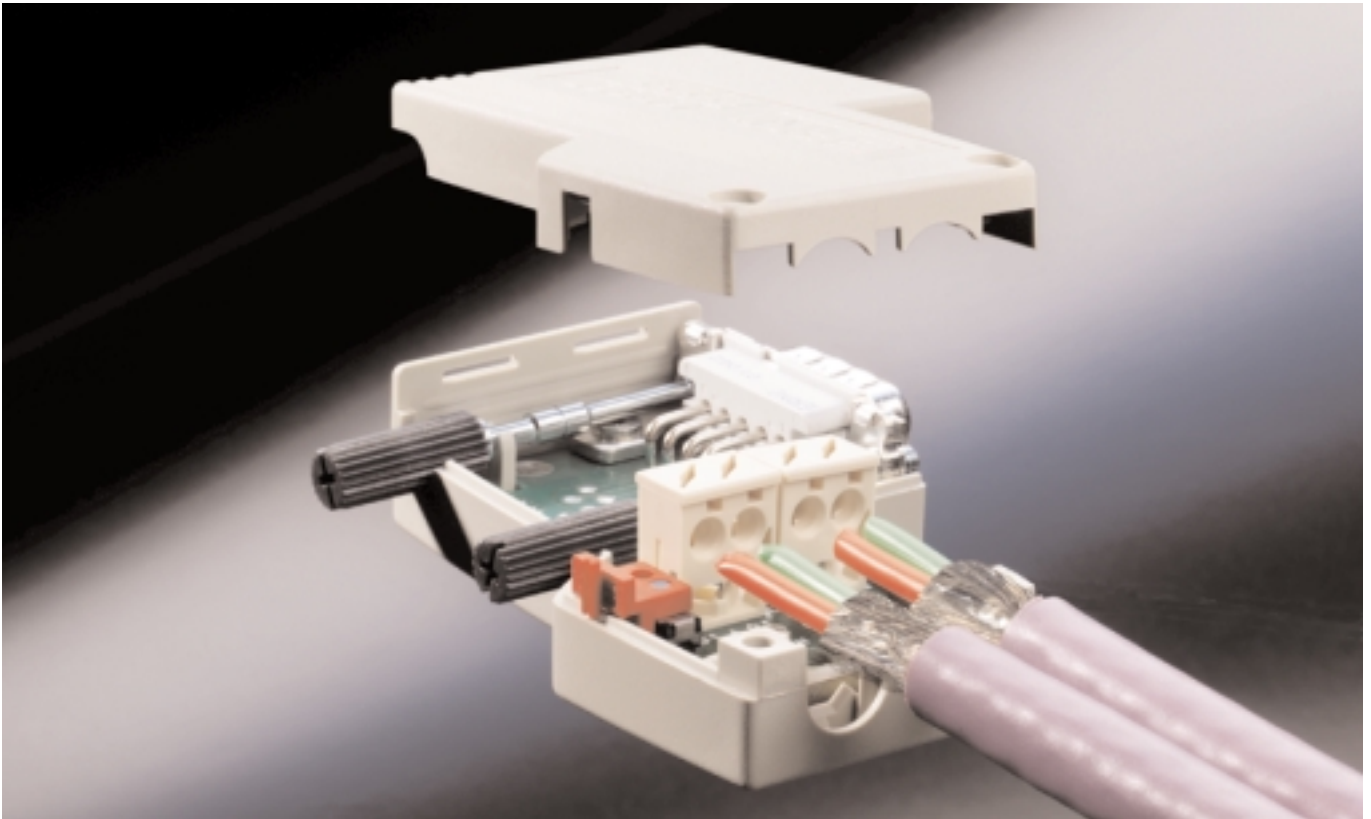


# ERbic

## Profibus IDC Switch

Profibus Cable Connections made Quicker and Easier



### General

ERNI has extended the established Bus-Interface Connector family with the ERbic Profibus IDC switch. The IDC terminals allow for quick and easy connection of discrete Profibus wires without pre-stripping the wire insulation. Furthermore, tooling is not required to operate the IDC terminal block.

The Profibus IDC switch includes an integrated switch that allows for flexible system design and easy system extension. The external switch, which is recessed and therefore protected from accidental interruption, operates the termination resistor.

In a network extension, the appropriate active termination connector may easily be switched to a node connector without terminating the system. Additionally, while troubleshooting the network, the appropriate node connector can be terminated and separated from adjacent network participants. This allows the remaining system to continue operation without disruption.

Additional technical specifications may be downloaded from [www.ERNI.com/ERbic-General-Info.htm](http://www.ERNI.com/ERbic-General-Info.htm) under the ERbic catalog.

### Part number

**Standard: 144037**

**Reversed: 144176**

**Vertical cable outlet: 134278**

**PU connection (2nd D-Sub): 144536**

### Technical Features

- Color: Grey
- Horizontal Cable Outlet
- D-Sub pin configuration according to Profibus
- External switch to activate and deactivate termination
- Switch protection
- The switch position and active or inactive termination are visually detectable
- Activated termination separates Bus participants
- Cable Types:
  - Profibus Cable: Solid wire 1x2x  $\varnothing$  0.64 mm
  - Outer Diameter: max. 8.0 mm
- Data rates up to 12 Mbit/s, through integrated SMT inductors

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## Electrical and mechanical characteristics for Cu transmission technology

Interface connector	D-Sub, 9-pin socket version
Cable termination	2 x horizontal, 2 x vertical (on request) 1 cable outlet may be sealed with blind plate
Cable diameter	4.5 mm (0.177") - 8.0 mm (0.315")
Single wire cross-section	solid: max. 0.64 mm <sup>2</sup>
Termination mode	IDC
Data transmission rate	according to the bus specification; up to 12 MBit/s
Temperature range	-20°C - +70°C
Permissible air humidity	max. 75% at + 25°C
Degree protection	IP 40
Dimensions in mm	64.6mm x 47.5mm x 16.0mm (2.54" x 1.87" x 0.63")
Housing material	Thermoplast UL94V-1
D-Subminiature screw	#4/40 UNC, knurled and slotted (M 3 upon request)
UL approval	UL file E 87403