

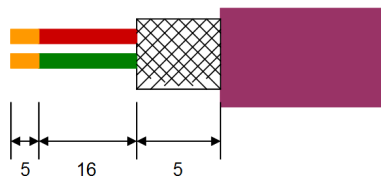
## Profibusconnector – CheapConn



- to connect a Profibus client or a Profibus netcomponent to the bus-line for Profibus
- transfer rate up to 12MBd
- cable connection via compression fitting technique
- one – screw – mounting - system
- inside shielded housing
- integrated connectible load-resistor (external accessible)
- integrated PD / diagnostic-plug
- 90° cable outlet
- different cable diameter useable
- 1:1 connection with all pins of the Profibusconnector to the PD / diagnostic plug

### Cable connection:

**Incoming line:** marked on the module: screw-type terminal **A** and **B**  
**Outgoing line:** marked on the module: screw-type terminal **A'** and **B'**



Depending on the thickness of the cable there have to inserted a filler at the back of the housing to reach the optimal cable clamping.

**Attention:** The shield of the cable doesn't get contact with the electronics. The best you can do, turn the shield to the back.

## **Termination:**

For the first and the last member at the bus connection, the switch for the termination **has** to be set to ON. The switch for the rest members **have** to be set to OFF.

**Note:** If the switch is set to ON, the outlet A' and B' will be shutdown.

<b>Ports/Case</b> Profibus PD / diagnostic Cable diameter Fixing screw Case Protections class	SubD 9 pin male SubD 9 pin female 5,0 mm – 8,0 mm 4 - 40 UNC ABS, V0 IP20
<b>Connection technology</b>	Screw / clamping technique
<b>Bus line</b> Characteristic impedance (ohm) Capacitance distribution (pF/m) Loop impedance (ohm/km) Strand diameter (mm) Strand section (mm <sup>2</sup> )	Type of circuit A, according to EN 50 170 135 ... 165 < 30 110 0,64 > 0,34
<b>Linear expansion</b> Baud rate in kbit/s 9,6 / 19,2 / 45,45 / 93,75 187,5 500 1500 3000 / 6000 / 12000	Length of segment in meter 1200 1000 400 200 100

## **Pin assignment:**

MPI / Profibus starting from the side of the PLC.

Signal name	Short form	Signal direction (viewed from the PLC)	PIN-Nr.
No funktion	NF		1
Ground 24V	M24V	Out	2
Data line B	Ltg_B	In + Out	3
Send Request from AS	RTS-AS	In	4
Ground 5V	M5V	OUT	5
5V output	P5V	IN	6
24V supply input	P24V	OUT	7
Data line A	Ltg_A	In + Out	8
Send Request to AS	RTS-PG	IN	9
Both sides of the SUB-D case			shielding

## **Note:**

All pins of the Profibus-SubD have a 1:1 connection to the diagnostic-SubD.

**Menutree Website:**

- + Products / docu / downloads
- + Accessories
  - + Connector plug / equipment
  - + Cheap-Conn

**QR-Code Website:**



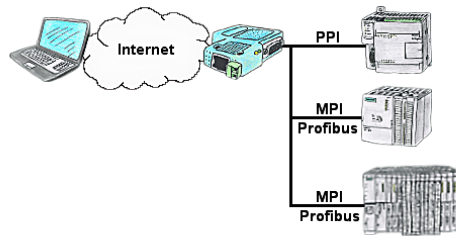
Please make sure to update your drivers before using our products.

Remote-maintenance Siemens-S5-PLC over VPN-server



Remote-maintenance of a Siemens-S5-controller with S5-LAN++ on PD-port over separate VPN-server

## Remote maintenance of your S7-PLC-device via LAN / Internet



You have access to a on-site network and your PLC-device has no LAN-connection? No problem, plug the S7-LAN on the PLC-device and you will have immediate access to the PLC from afar.

## Management of the data-areas

**Datenbereich-Zugriffsschutz**

Schutzmodus:  Hilfe anzeigen

CPU 2	#Bus-Teilnehmer 2
r:=M04	#Lesen M04
r:=M5	#Lesen M5
w:=M8	#Schreiben M8
CPU 6	#Bus-Teilnehmer 6
r:=M0,40	#Lesen 40 Merkerworte ab M0
w:=M80-90	#Schreiben M80 - M90
CPU 10	#Bus-Teilnehmer 10
r:=EW0,10	Lesen 10 Eingangsworte ab EW0

With the management of the data-areas it is determined whether the entered data-areas can be read/written via the module with the connected controllers. A central button for the function determines whether the specified inputs are "allowed" or "not allowed" are.

The input itself is kept very simple: "r" for reading and "w" for writing, a ":" as a separator and then the data-area in S7-format. If there is only one CPU on the bus, the CPU-address does not even have to be specified, the participant on which the module is plugged in is used.