

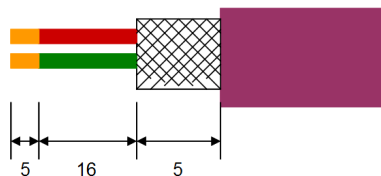
## Profibusconnector – CheapConn



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

## **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.

Under the web-address <https://www.process-informatik.de> are product specific documentations or software-driver/-tools available to download.  
If you have questions or suggestions about the product, please don't hesitate to contact us.

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**Menutree Website:**

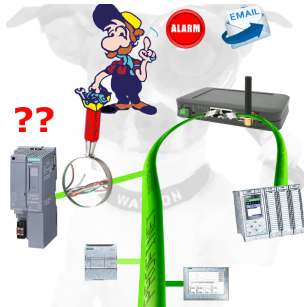
- + Products / docu / downloads
- + Accessories
  - + Connector plug / equipment
  - + Cheap-Conn

**QR-Code Website:**



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

## Recognize missing Profinet participants



Recognize cable breakage, contact problems and line faults.  
Retransmissions and failures are logged and reported.  
Early acting before total failure of the participant.

## Profinet-monitoring/-diagnosis inclusive alarm-messages



Detect intrusions and anomalies on your ProfiNet.  
Early detection of malfunction and failures and malfunctions.  
Easy installation, plug and play double socket.