# 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´**
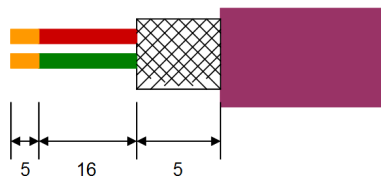
Depending on the thickness of the cable there have to inserted a filler at the back of the housing to reach the optimal cable clamping.
Attention: The shield of the cable doesn't get contact with the electronics. The best you can do, turn the shield to the back.

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.

Ports/Case	
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
Connection technology	Screw / clamping technique
Bus line	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 (mm²)	> 0,34
Linear expansion	
Baud rate in kbit/s	Length of segment in meter
9,6 / 19,2 / 45,45 / 93,75	1200
187,5	1000
500	400
1500	200
3000 / 6000 / 12000	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.

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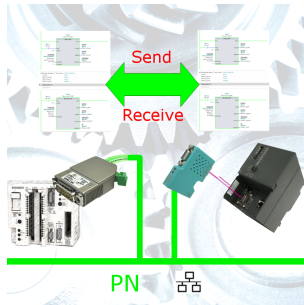
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+ Products / docu / downloads
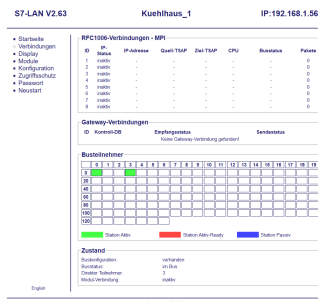 + Accessories
    + Connector plug / equipment
      + Cheap-Conn

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

Coupling S7-controller with MPI/Profibus at S5-control with PD-port via network

Informations about the bus

View information from the connected bus-system in plain text without using the Simatic-Manager or TIA-Portal. With the connection-menu you get the list of reachable nodes, marked in color whether it is an "active bus-participant", is a "candidate for inclusion in the bus" or a "passive bus-participant".
 You can also see whether cyclic bus-parameter-protocols have been received, you are "in the bus" yourself, the bus-address of the participant recognized as a "direct participant" (on which the S7-LAN is located) and whether the contained modules such as "variable control", "gateway-coupling",... actively communicate.