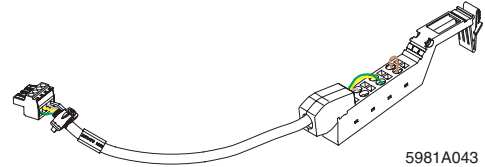


IB IL MUX-CAB PSI

Adapter cable to connect the Inline field multiplexer
to PSI MOS interface modules



AUTOMATION

Data sheet
7841_en_00

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1 Description

The completely assembled adapter cable was designed for applications in which you set up a field multiplexer system with optical fibers. In this case, you may connect the field multiplexer and the fiber-optic converter using the adapter cable without any additional wiring.



Make sure you always use the latest documentation.
It can be downloaded at www.phoenixcontact.com.

2 Ordering data

Products

Description	Type	Order No.	Pcs./Pkt.
Adapter cable to connect the Inline field multiplexer to PSI MOS interface modules	IB IL MUX-CAB PSI	2878476	1

Documentation

Description	Type	Order No.	Pcs./Pkt.
"Automation terminals of the Inline product range" user manual	IL SYS INST UM E	2698737	1
"Configuring and installing the Inline field multiplexer" user manual	IB IL MUX UM E	–	–

3 Terminal point assignment

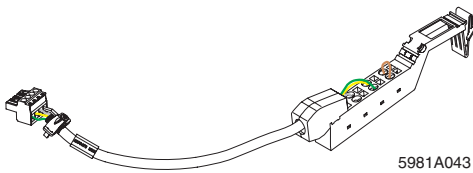


Figure 1 Assembled adapter cable

3.1 Terminal point assignment of the Inline connector to connect an Inline field multiplexer

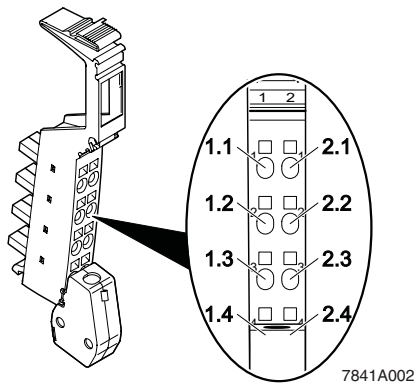


Figure 2 Inline connector

Terminal point	Signal	Assignment	Color
1.1	Bridge	Jumper to 2.1	Brown
2.1	Bridge	Jumper to 1.1	Brown
1.2	Data	Data positive	Yellow
2.2	/Data	Data negative	Green
1.3	GND	Ground	Gray
2.3	–	Not used	–
1.4, 2.4	Shield	Shield	–

3.2 Terminal point assignment of the COMBICON connector to connect a PSI-MOS interface module

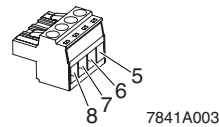


Figure 3 COMBICON connector

Terminal point	Signal	Assignment	Color
5	Shield	Shield	–
6	GND	Ground	Gray
7	D(B)	Data positive	Yellow
8	D(A)	Data negative	Green

4 Application examples



A detailed description of the application examples can be found in the IB IL MUX UM E user manual.

4.1 Inline field multiplexer station with a fiber optic path

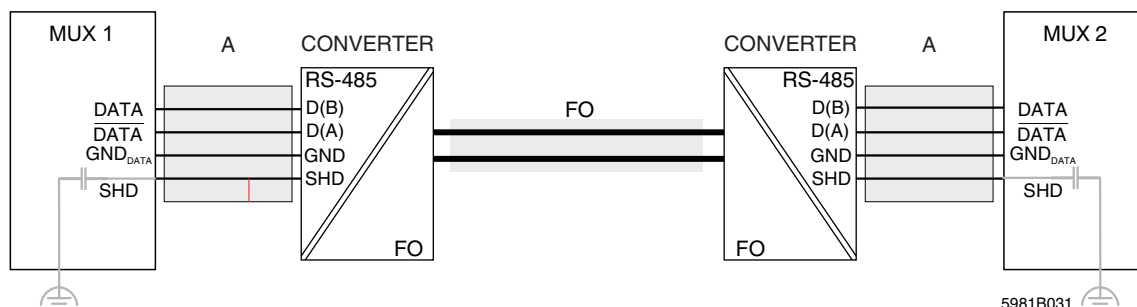


Figure 4 Basic circuit diagram: Transmission over fiber optics

Key:

MUX	IB IL 24 MUX MA-PAC	CONVERTER	Fiber optic converter: PSI-MOS-RS485W2/FO...
A	IB IL MUX-CAB PSI adapter cable	FO	Fiber optic connection

4.2 Inline field multiplexer station with a Bluetooth path



NOTE: Malfunction

If you are using the IB IL MUX-CAB PSI adapter cable:

Swap the yellow and green wires at terminal points 16 and 17 of the Bluetooth converter and remove the jumper (brown) from terminal 1.1 to 2.1. of the field multiplexer connector.

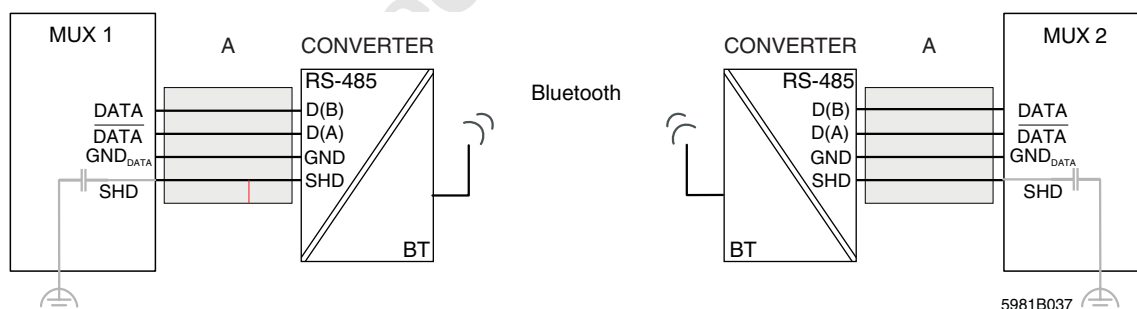


Figure 5 Basic circuit diagram: Transmission over Bluetooth

Key:

MUX	IB IL 24 MUX MA-PAC	CONVERTER	Bluetooth converter: PSI-WL-RS232-RS485/BT
A	Adapter cable (modified IB IL MUX-CAB PSI cable)	BT	Bluetooth connection