# **INTERBUS Club Specification M12 Connector for INTERBUS**



#### **M12 Connector for INTERBUS** 1.

### 1.1 **Application:**

INTERBUS remote bus with RS485 interface

### 1.2. Type, Precise Designation:

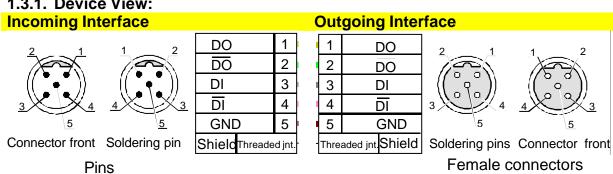
M12 circular connector, B-encoded,

General Parameters	
Number of pins	5-pos.
Interlock	Screwed
Degree of protection	IP 68
Contact pin	CuZn (brass)
Contact bushing	CuSn (bronze)
Contact surface	Gold-plated min. 0.8µm
	Au
Through resistance	<3 mOhm

#### 1.3. **Pin Assignment:**

Pin	Signal	Description
1	DO	Data cable from IBS master
2	/DO	Data cable inverted from IBS master
3	DI	Data cable to IBS master
4	/DI	Data cable inverted to IBS master
5	GND	Ground
Threaded joint	Shield	

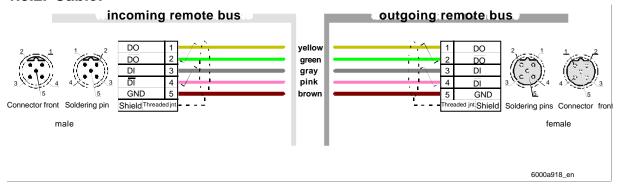
### 1.3.1. Device View:



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# 1.3.2. Cable:



The shield must be positioned concentrically onto the threaded joint so that as much of the shield as possible is connected to it.



The new connector does not influence the "INTERBUS data cable" guideline. All requirements concerning the cable still have to be met.

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## 1.4. Manufacturer's Designation:

## E.g.:



franz binder gmbh + co. elektrische bauelemente kg Rötelstrasse 27 74172 Neckarsulm www.binder-connector.de

Designation	Order Number
Connector: pin:	09 4445 88 05
Connector: female	09 3446 92 05
connector:	

### **Device**

Incom	ina l	Inter	face

### **Outgoing Interface**





Pins Female connector

### 1.5 Main Advantage:

Up to now the following connectors are admitted for remote bus devices with RS485 interface with a high degree of protection:

- M23 connector 9-pos.
- RL connector 5+6-pos.

However, both connectors do not meet the call for further miniaturization for field devices.

M12 connectors need much less space. They have been introduced and are available worldwide.

### 1.6. Limitations:

Can only be used for protocol chips with automatic interface detection (e.g. IBS SUPI OPC).