PLC System Cabling

Interfaces and Pre-assembled cables for Moeller XIOC

Weidmüller

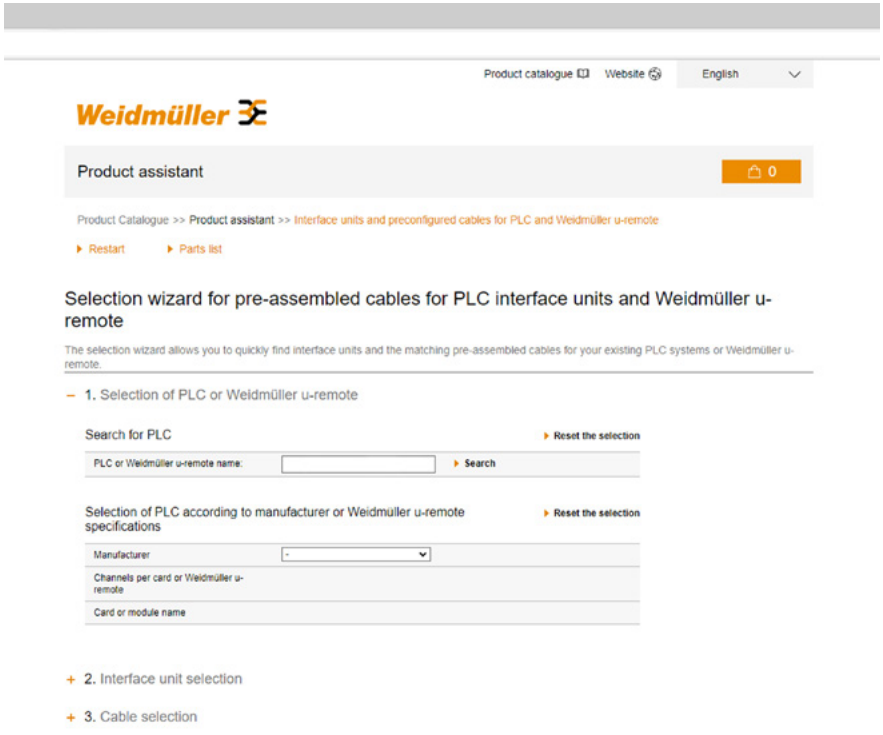
Universal solutions for PLC input/output cards

Aimed at reducing costs, and to save space and time in the construction of electrical cabinets, the universal cabling system for PLCs is provided as an effective alternative to end-to-end cabling design. Weidmüller offers a wide range of pre-assembled cables and interfaces:

- The interfaces are used as an interconnection element between the control and the process, and are supplied with tension clamp or screw connection. Those interfaces, with a compact design, provide different functions such as LEDs, fuses, disconnectors or relays.
- The pre-assembled cables are supplied with the manufacturer's own connector at one end and are available in different lengths.

Product Finder and automatic selection guides:
To help you choose the right products for your application, Weidmüller offers this **Product finder** with a selection table which can be found on the following pages.

In addition, on our website, we have an automatic selection guide, using intuitive software that can help you to choose the appropriate interface cable for your Input/Output cards. This can be found at **www.weidmueller.com**



Acces to Weidmüller Product Finder:
http://galaxy.weidmueller.com/wi_plc

Interfaces and Pre-assembled cables for Moeller XIOC

The following selection tables help you to choose the pre-assembled cables

1. **Select the PLC card from the corresponding table**
   For example: XIOC-16DO

2. **Check the code of the cable to be ordered:**
   - Cable code 7789865XXX
   - Quantity: 1 unit (by card)

   The last 3 digits indicate the length:
   For example, 015 indicates 1.5 m

3. **Locate the module family and the quantity required**
   Example:
   - H2016 System Quantity: 2 unit (by card)

   or
   - O2016 System Quantity: 1 unit (by card)

   Take the notes into account (if there are any)

4. Once the module family is chosen (step 3 – eg H2016), search it in the Interface selection tables and choose the proper interface according to the need of the application: 1, 2 or 3 wires, screw or tension clamp connection, with fuse, LED, switch

   In the case that an input/output card does not appear in this table, you can check our on-line PLC selection guide at www.weidmueller.com where you will always find the most up-to-dated information.

	PLC		Cables		Interfaces					
	Input/Output cards		Standard		Direct inputs/outputs		Insulated inputs		Insulated outputs	
	Manufacturer code	Number/Type of channels	Order No.	Quantity	Type	Quantity	Type	Quantity	Type	Quantity
DI	XIOC-16DI	16 DI, positive logic	7789862xxx	1	H2016	1	I2016	1		
		16 DI, negative logic A)	7789863xxx	1	H2016	1				
	XIOC-16DI-AC	16 DI	7789864xxx	1	R2416	1				
	XIOC-16DI-AC110	16 DI	7789864xxx	1	R2416	1				
	XIOC-32DI	32 DI, positive logic	7789771xxx	1	H2016	2	I2016	2		
		32 DI, negative logic A)	7789768xxx	1	H2016	2				
	XIOC-8DI	8 DI, positive logic	7789862xxx	1	H2008	1				
		8 DI, negative logic A)	7789863xxx	1	H2016	1				
DO	XIOC-12DO-R B)	12 DO	7789871xxx	1	R2416	1				
	XIOC-16DO	16 DO	7789865xxx	1	H2016	1			O2016	1
	XIOC-16DO-S	16 DO	7789865xxx	1	H2016	1			O2016	1
	XIOC-32DO	32 DO	7789866xxx	1	H2016	2			O2016	2
	XIOC-8DO	8 DO	7789865xxx	1	H2008	1			O2008	1
DI/DO	XIOC-16DX	16 DI	7789872xxx	1	H2016	1				
		16 DO								
AI	XIOC-8AI-I2	8 AI	7789867xxx	1	A2508	1				
	XIOC-8AI-U1	8 AI	7789867xxx	1	A2508	1				
	XIOC-8AI-U2	8 AI	7789867xxx	1	A2508	1				
AO	XIOC-2AO-U1-2AO-I2	4 AO	7789868xxx	1	A1504	1				
	XIOC-2AO-U2	2 AO	7789868xxx	1	A1504	1				
	XIOC-4AO-U1	4 AO	7789868xxx	1	A1504	1				
	XIOC-4AO-U2	4 AO	7789868xxx	1	A1504	1				
AI/AO	XIOC-2AI-1AO-U1	2 AI	7789870xxx	1	A1504	1				
		2 AO								
	XIOC-2AI-1AO-U1-I1	2 AI	7789870xxx	1	A1504	1				
		2 AO								
	XIOC-4AI-2AO-U1	4 AI	7789869xxx	1	A2508	1				
		2 AO								
	XIOC-4AI-2AO-U1-I1	4 AI	7789869xxx	1	A2508	1				
		2 AO								
Note	A) Attention! Only use interfaces without LEDs B) The 24 V DC power supply should be provided externally									

- Please, always take into account the characteristics of the PLC card (voltage, current...) when selecting interfaces. In some cases, the card can work at higher voltages than those indicated in the interface.
- The interfaces are intended to be used inside an IP20 enclosure at least.
- The last 3 digits of the cable code indicate its length in decimetres. For example, if the code ends in 100, the cable would be 10 m long.

* In the case that an input/output card does not appear in this table, you can check our on-line PLC selection guide at www.weidmueller.com where you will always find the most up-to-date information.

Selection table for digital input/output cards with direct wiring interfaces

H20

1:1

- 20-pole ribbon connector
- Connection 1 to 1

	Screw	T. clamp
without LED	0224261001	8537110000

H2008

2 wires

- 8 channels
- 20-pole ribbon connector
- Direct wiring

	Screw	T. clamp
with LED	9445530000	on demand

R1208

2 wires

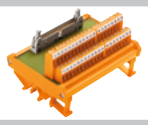
- 8 channels
- 12-poles RSV connector
- Direct wiring

	Screw	T. clamp
without LED	9441540000	on demand

H40

1:1

- 40-pole ribbon connector
- Connection 1 to 1



	Screw	T. clamp
without LED	0224461001	8537140000

H2016

1 wire

- 16-channel
- 20-pole ribbon connector
- Direct wiring

	Screw	T. clamp
without LED	9445700000	1311750000
with LED	9445710000	1311770000

1 wire

- 16-channel
- 20-pole ribbon connector
- Disconnector

	Screw	T. clamp
with LED	9445810000	1311780000

2 wires

- 16-channel
- 20-pole ribbon connector
- Direct wiring

	Screw	T. clamp
without LED	9445720000	1311790000
with LED	9445730000	1311800000

2 wires

- 16-channel
- 20-pole ribbon connector
- Disconnector

	Screw	T. clamp
without LED	1311810000	1311820000
with LED	9445750000	1311830000

2 wires

- 16-channel
- 20-pole ribbon connector
- Fus

	Screw	T. clamp
without LED	9445820000	1311840000
with LED	1311850000	1311870000

3 wires

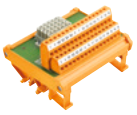
- 16-channel
- 20-pole ribbon connector
- Direct wiring

	Screw	T. clamp
without LED	9445760000	1311880000
with LED	9445770000	1311890000

R2416

1 wire

- 16-channel
- 24-pole RSV connector
- Direct wiring



	Screw	T. clamp
without LED	9441500000	On demand

1 wire

- 16-channel
- 24-pole RSV connector
- Disconnector

	Screw	T. clamp
without LED	9441860000	On demand

2 wires

- 16-channel
- 24-pole RSV connector
- Direct wiring

	Screw	T. clamp
without LED	9441700000	On demand

2 wires

- 16-channel
- 24-pole RSV connector
- Fus

	Screw	T. clamp
without LED	9441560000	On demand

3 wires

- 16-channel
- 24-pole RSV connector
- Disconnector

	Screw	T. clamp
without LED	9441600000	On demand

R3632

1 wire

- 32-channel
- 36-pole RSV connector
- Direct wiring

	Screw	T. clamp
without LED	9441510000	On demand

1 wire

- 32-channel
- 36-pole RSV connector
- Disconnector

	Screw	T. clamp
without LED	9441870000	On demand

2 wire

- 32-channel
- 36-pole RSV connector
- Direct wiring

	Screw	T. clamp
without LED	9441710000	On demand

2 wires

- 32-channel
- 36-pole RSV connector
- Fus

	Screw	T. clamp
without LED	9441570000	On demand

Selection table for analogue input/output cards with direct wiring interfaces

A15

1:1

- 15-pole male, Sub-D connector
- Connection 1 to 1

	Screw	T. clamp
without LED	8005201001	8537390000

A1504

- 4 channels
- 15-pole male, Sub-D connector
- Direct wiring

	Screw	T. clamp
without LED	9448000000	1308230000

- 4 channels
- 15-pole male, Sub-D connector
- Test point and disconnector

	Screw	T. clamp
without LED	9448100000	1308240000

A25

1:1

- 25-pole male, Sub-D connector
- Connection 1 to 1

	Screw	T. clamp
without LED	8005181001	8537370000

A2508

- 8 channels
- 25-pole male, Sub-D connector
- Direct wiring

	Screw	T. clamp
without LED	9448010000	1308250000

- 8 channels
- 25-pole male, Sub-D connector
- Test point and disconnector

	Screw	T. clamp
without LED	9448110000	9449110000

A37

1:1

- 37-pole male, Sub-D connector
- Connection 1 to 1

	Screw	T. clamp
without LED	8003881001	8537240000

A3716

- 16 channels
- 37-pole male, Sub-D connector
- Direct wiring

	Screw	T. clamp
without LED	9448020000	1308270000

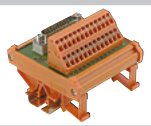
- 16 channels
- 37-pole male, Sub-D connector
- Test point and disconnector

	Screw	T. clamp
without LED	9448120000	1308280000

A50

1:1

- 50-pole male, Sub-D connector
- Connection 1 to 1



	Screw	T. clamp
without LED	8005161001	8537350000

A2508P

- 8 channels
- 25-pole male, Sub-D connector
- Voltage/current configuration

	Screw	T. clamp
without LED	9448030000	On demand

Selection table for digital input cards with isolated interfaces

I2016

Slim relay 1CO 6A

- 16-channel
- 20-pole ribbon connector
- Gold contact relay

	Screw	T. clamp
24 V DC Input	1312000000	1312010000
48 V DC Input	1312020000	

Selection table for digital output cards with isolated interfaces

O2008

Slim relay 1CO 6A

- 8-channel
- 20-pole ribbon connector
- 1 Changeover

	Screw	T. clamp
without SWITCH	1456540000	1456570000
with SWITCH	1128990000	1129000000

Relay 1CO 16A

- 8-channel
- 20-pole ribbon connector
- 1 Changeover

	Screw	T. clamp
without SWITCH	9445000000	9447000000

O2016 (positive switching)

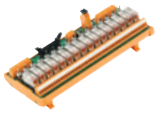
Slim relay 1CO 6A

- 16-channel
- 20-pole ribbon connector
- 1 Changeover

	Screw	T. clamp
without SWITCH	1457300000	1457320000
with SWITCH	1129030000	1129040000

Relay 1CO 16A

- 16-channel
- 20-pole ribbon connector
- 1 Changeover



	Screw	T. clamp
without SWITCH	1448280000	1448300000
with SWITCH	1129120000	1129130000

Relay 1CO 16A

- 16-channel
- 20-pole ribbon connector
- 1 Changeover

	Screw	T. clamp
without SWITCH	9445100000	9447100000

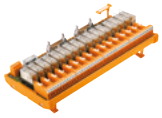
Relay 1CO 16A + Fus

- 16-channel
- 20-pole ribbon connector
- 1 changeover with fus

	Screw	T. clamp
without SWITCH	9445120000	9447120000

Relay 1CO 16A + Disconnectors

- 16-channel
- 2x 20-pole ribbon connector
- 1 changeover with disconnector



	Screw	T. clamp
without SWITCH	1431720000	On demand

Relay 2CO 8A

- 16-channel
- 20-pole ribbon connector
- 2 Changeover

	Screw	T. clamp
without SWITCH	1449210000	1449230000

O2016N (Negative switching)

Slim relay 1CO 6A

- 16-channel
- 20-pole ribbon connector
- 1 Changeover

	Screw	T. clamp
without SWITCH	1457310000	1457330000

Relay 1CO 16A

- 16-channel
- 20-pole ribbon connector
- 1 Changeover

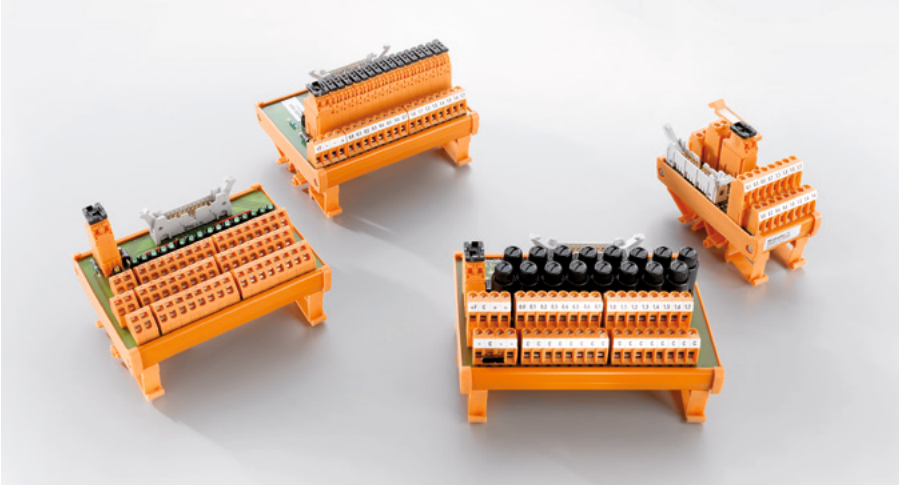
	Screw	T. clamp
without SWITCH	1448290000	1448310000

Relay 2CO 8A

- 16-channel
- 20-pole ribbon connector
- 2 Changeover

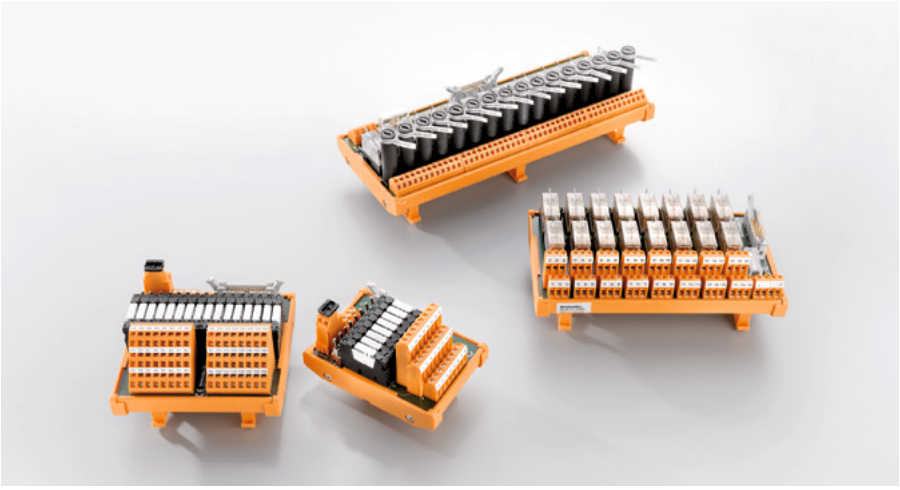
	Screw	T. clamp
without SWITCH	1449220000	1449250000

Main advantages



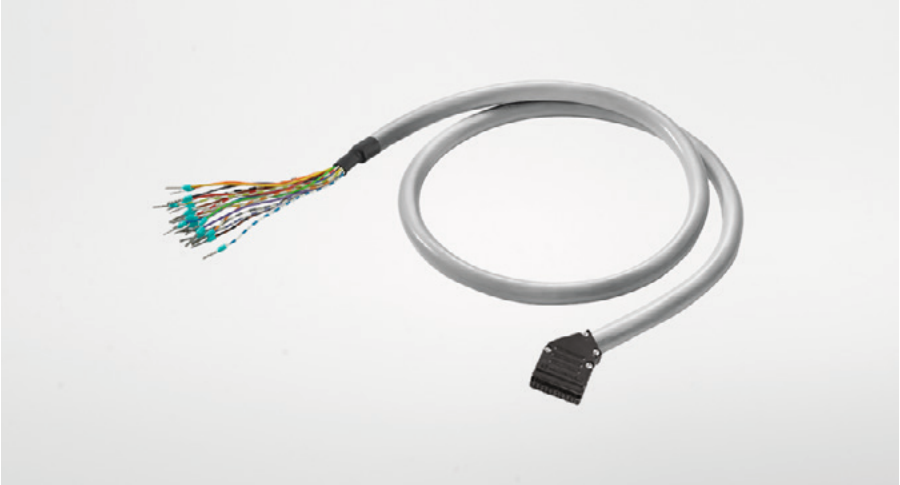
Wide range of passive interfaces
The range includes passive input/output interfaces for digital and analogue signals. The interfaces are available in screw or tension clamp connection and the sensors/actuators can be connected with 1, 2 or 3 wires, whichever is needed. You can also choose from a large variety of functions:

- LED indication
- Fuse
- Disconnectors
- Test points



Wide range of relay insulated interfaces
Available in versions with 8-12 and 16 relays, the RSM family offers the possibility of insulating digital signals both in input and output cards. Options include our compact format (6 mm relays) or standard (RCL relay), with additional features including:

- Switch in coil and contact
- Fuse in contact
- 1 or 2 CO contacts



Guaranteed connection
The original PLC connector is on one end of the cable and standard connectors are on the other end: ribbon cable with fixing housing for digital signals and SUB-D connector for analogue signals. Available in different lengths.

Weidmüller – Your partner in Smart Industrial Connectivity

As experienced experts we support our customers and partners around the world with products, solutions and services in the industrial environment of power, signal and data. We are at home in their industries and markets and know the technological challenges of tomorrow. We are therefore continuously developing innovative, sustainable and useful solutions for their individual needs. Together we set standards in Smart Industrial Connectivity.

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