

PLC System Cabling

Interfaces and Pre-assembled cables for Siemens S7-400



Weidmüller 

Universal solutions for PLC input/output cards

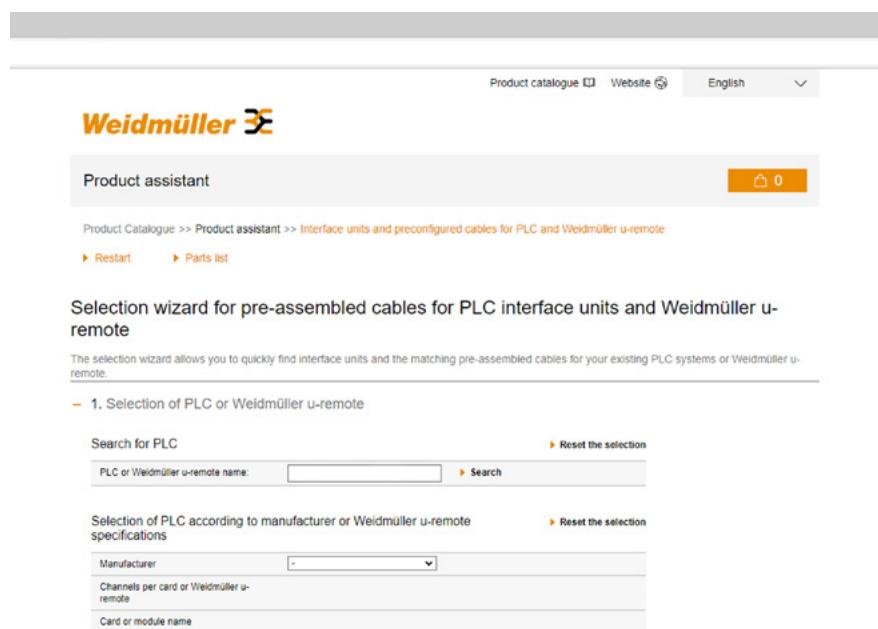
Aimed at reducing costs, and to save space and time in the construction of electrical cabinets, the universal cabling system for PLCs is provided as an effective alternative to end-to-end cabling design. Weidmüller offers a wide range of pre-assembled cables and interfaces:

- 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



The screenshot shows the Weidmüller Product Finder interface. At the top, there are links for 'Product catalogue' and 'Website', and a language selection for 'English'. The main title is 'Weidmüller '. Below the title, a 'Product assistant' button is highlighted with a yellow border, showing a count of 0. The URL 'Product Catalogue >> Product assistant >> Interface units and preconfigured cables for PLC and Weidmüller u-remote' is displayed. There are 'Restart' and 'Parts list' buttons. The main content area is titled 'Selection wizard for pre-assembled cables for PLC interface units and Weidmüller u-remote'. It includes a note: 'The selection wizard allows you to quickly find interface units and the matching pre-assembled cables for your existing PLC systems or Weidmüller u-remote.' Below this, a section for 'Selection of PLC or Weidmüller u-remote' is shown with a search bar and dropdown menus for 'Manufacturer', 'Channels per card or Weidmüller u-remote', and 'Card or module name'. A 'Reset the selection' button is also present.

+ 2. Interface unit selection

+ 3. Cable selection

Acces to Weidmüller Product Finder:

http://galaxy.weidmueller.com/wi_plc



Interfaces and Pre-assembled cables for Siemens S7-400

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

1. Select the PLC card from the corresponding table

For example: 6ES7421-1BL00-0AA0

2. Check the code of the cable to be ordered:

- Cable code 7789292xxx
- 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 I2016 System Quantity: 2 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		
	Manufacturer code	Number/Type of channels	Order No.	Quantity	Type	Quantity	Type	Quantity	
DI	6ES7421-1BL00-0AA0	32 DI	7789292xxx	1	H2016	2	I2016	2	
	6ES7421-1BL01-0AA0	32 DI	7789292xxx	1	H2016	2	I2016	2	
	6ES7421-1EL00-0AA0	32 DI	7789278xxx	1	R3632	1			
	6ES7421-1FH00-0AA0	16 DI	7789273xxx	1	R2416	1			
	6ES7421-1FH20-0AA0	16 DI	7789273xxx	1	R2416	1			
	6ES7421-7BH00-0AB0	16 DI	7789290xxx	1	H2016	2	I2016	2	
	6ES7421-7BH01-0AB0	16 DI	7789290xxx	1	H2016	2	I2016	2	
	6ES7421-7DH00-0AB0	16 DI	7789278xxx	1	R3632	1			
DO	6ES7422-1BH10-0AA0	16 DO	7789291xxx	1	H2016	1		02016	1
	6ES7422-1BH11-0AA0	16 DO	7789291xxx	1	H2016	1		02016	1
	6ES7422-1BL00-0AA0	32 DO	7789292xxx	1	H2016	2		02016	2
	6ES7422-1FH00-0AA0	16 DO	7789273xxx	1	R2416	1			
	6ES7422-1HH00-0AA0	16 DO	7789270xxx	1	R3632	1			
	6ES7422-5EH10-0AB0	16 DO	7789291xxx	1	H2016	1		02016	1
	6ES7422-7BL00-0AB0	32 DO	7789292xxx	1	H2016	2		02016	2
	6ES7431-0HH00-0AB0	16 AI	7789284xxx	1	A3716	1			
AI	6ES7431-1KF00-0AB0	8 AI, voltage and resistance applications	2062360xxx	1	A2508	1			
	6ES7431-1KF00-0AB0	8 AI, current applications	2062380xxx	1	A2508	1			
	6ES7431-1KF10-0AB0	8 AI	7789285xxx	1	A2508	1			
	6ES7431-1KF20-0AB0	8 AI	7789285xxx	1	A2508	1			
	6ES7431-7KF10-0AB0	16 AI	7789284xxx	1	A3716	1			
	6ES7431-7OH00-0AB0	16 AI	7789284xxx	1	A3716	1			
	6ES7432-1HF00-0AB0	8 AO, common mode voltage applications	7789288xxx	1	A2508	1			

Note

- Please, always take into account the characteristics of the PLC card (voltage, current...) when selecting interfaces.

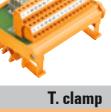
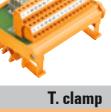
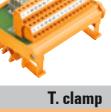
In some cases, the card can work at higher voltages than those indicated in the interface.

- 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

<h3>H20</h3> <table border="1"> <tr> <td colspan="2" style="text-align: center; background-color: #e69138; color: white;">1:1</td> </tr> <tr> <td colspan="2"> <ul style="list-style-type: none"> • 20-pole ribbon connector • Connection 1 to 1  </td> </tr> <tr> <td style="text-align: center;">Screw</td> <td style="text-align: center;">T. clamp</td> </tr> <tr> <td>without LED</td> <td>0224261001 8537110000</td> </tr> </table>	1:1		<ul style="list-style-type: none"> • 20-pole ribbon connector • Connection 1 to 1 		Screw	T. clamp	without LED	0224261001 8537110000	<h3>H2016</h3> <table border="1"> <tr> <td colspan="2" style="text-align: center; background-color: #e69138; color: white;">1 wire</td> </tr> <tr> <td colspan="2"> <ul style="list-style-type: none"> • 16-channel • 20-pole ribbon connector • Direct wiring  </td> </tr> <tr> <td style="text-align: center;">Screw</td> <td style="text-align: center;">T. clamp</td> </tr> <tr> <td>without LED</td> <td>9445700000 1311750000</td> </tr> <tr> <td>with LED</td> <td>9445710000 1311770000</td> </tr> <tr> <td colspan="2" style="text-align: center; background-color: #e69138; color: white;">1 wire</td> </tr> <tr> <td colspan="2"> <ul style="list-style-type: none"> • 16-channel • 20-pole ribbon connector • Disconnector  </td> </tr> <tr> <td style="text-align: center;">Screw</td> <td style="text-align: center;">T. clamp</td> </tr> <tr> <td>without LED</td> <td>9445810000 1311780000</td> </tr> <tr> <td colspan="2" style="text-align: center; background-color: #e69138; color: white;">2 wires</td> </tr> <tr> <td colspan="2"> <ul style="list-style-type: none"> • 16-channel • 20-pole ribbon connector • Direct wiring  </td> </tr> <tr> <td style="text-align: center;">Screw</td> <td style="text-align: center;">T. clamp</td> </tr> <tr> <td>without LED</td> <td>9445720000 1311790000</td> </tr> <tr> <td>with LED</td> <td>9445730000 1311800000</td> </tr> </table>	1 wire		<ul style="list-style-type: none"> • 16-channel • 20-pole ribbon connector • Direct wiring 		Screw	T. clamp	without LED	9445700000 1311750000	with LED	9445710000 1311770000	1 wire		<ul style="list-style-type: none"> • 16-channel • 20-pole ribbon connector • Disconnector 		Screw	T. clamp	without LED	9445810000 1311780000	2 wires		<ul style="list-style-type: none"> • 16-channel • 20-pole ribbon connector • Direct wiring 		Screw	T. clamp	without LED	9445720000 1311790000	with LED	9445730000 1311800000				
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Selection table for analogue input/output cards with direct wiring interfaces

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<p style="text-align: center; font-weight: bold;">1:1</p> <ul style="list-style-type: none"> • 15-pole male, Sub-D connector • Connection 1 to 1 <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center; padding: 5px;">Screw</td><td style="width: 50%; text-align: center; padding: 5px;">T. clamp</td></tr> <tr> <td style="width: 50%; text-align: center; padding: 5px;">without LED</td><td style="width: 50%; text-align: center; padding: 5px;">8005201001 8537390000</td></tr> </table>	Screw	T. clamp	without LED	8005201001 8537390000	<p style="text-align: center; font-weight: bold;">1:1</p> <ul style="list-style-type: none"> • 4 channels • 15-pole male, Sub-D connector • Direct wiring <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center; padding: 5px;">Screw</td><td style="width: 50%; text-align: center; padding: 5px;">T. clamp</td></tr> <tr> <td style="width: 50%; text-align: center; padding: 5px;">without LED</td><td style="width: 50%; text-align: center; padding: 5px;">9448000000 1308230000</td></tr> </table>	Screw	T. clamp	without LED	9448000000 1308230000
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Screw	T. clamp								
without LED	9448000000 1308230000								
<p style="text-align: center; font-weight: bold;">A25</p> <p style="text-align: center; font-weight: bold;">1:1</p> <ul style="list-style-type: none"> • 25-pole male, Sub-D connector • Connection 1 to 1 <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center; padding: 5px;">Screw</td><td style="width: 50%; text-align: center; padding: 5px;">T. clamp</td></tr> <tr> <td style="width: 50%; text-align: center; padding: 5px;">without LED</td><td style="width: 50%; text-align: center; padding: 5px;">8005181001 8537370000</td></tr> </table>	Screw	T. clamp	without LED	8005181001 8537370000	<p style="text-align: center; font-weight: bold;">A2508</p> <p style="text-align: center; font-weight: bold;">1:1</p> <ul style="list-style-type: none"> • 8 channels • 25-pole male, Sub-D connector • Direct wiring <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center; padding: 5px;">Screw</td><td style="width: 50%; text-align: center; padding: 5px;">T. clamp</td></tr> <tr> <td style="width: 50%; text-align: center; padding: 5px;">without LED</td><td style="width: 50%; text-align: center; padding: 5px;">9448010000 1308250000</td></tr> </table>	Screw	T. clamp	without LED	9448010000 1308250000
Screw	T. clamp								
without LED	8005181001 8537370000								
Screw	T. clamp								
without LED	9448010000 1308250000								
<p style="text-align: center; font-weight: bold;">A37</p> <p style="text-align: center; font-weight: bold;">1:1</p> <ul style="list-style-type: none"> • 37-pole male, Sub-D connector • Connection 1 to 1 <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center; padding: 5px;">Screw</td><td style="width: 50%; text-align: center; padding: 5px;">T. clamp</td></tr> <tr> <td style="width: 50%; text-align: center; padding: 5px;">without LED</td><td style="width: 50%; text-align: center; padding: 5px;">8003881001 8537240000</td></tr> </table>	Screw	T. clamp	without LED	8003881001 8537240000	<p style="text-align: center; font-weight: bold;">A3716</p> <p style="text-align: center; font-weight: bold;">1:1</p> <ul style="list-style-type: none"> • 16 channels • 37-pole male, Sub-D connector • Direct wiring <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center; padding: 5px;">Screw</td><td style="width: 50%; text-align: center; padding: 5px;">T. clamp</td></tr> <tr> <td style="width: 50%; text-align: center; padding: 5px;">without LED</td><td style="width: 50%; text-align: center; padding: 5px;">9448020000 1308270000</td></tr> </table>	Screw	T. clamp	without LED	9448020000 1308270000
Screw	T. clamp								
without LED	8003881001 8537240000								
Screw	T. clamp								
without LED	9448020000 1308270000								
<p style="text-align: center; font-weight: bold;">A50</p> <p style="text-align: center; font-weight: bold;">1:1</p> <ul style="list-style-type: none"> • 50-pole male, Sub-D connector • Connection 1 to 1 <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center; padding: 5px;">Screw</td><td style="width: 50%; text-align: center; padding: 5px;">T. clamp</td></tr> <tr> <td style="width: 50%; text-align: center; padding: 5px;">without LED</td><td style="width: 50%; text-align: center; padding: 5px;">8005161001 8537350000</td></tr> </table>	Screw	T. clamp	without LED	8005161001 8537350000	<p style="text-align: center; font-weight: bold;">A2508P</p> <p style="text-align: center; font-weight: bold;">1:1</p> <ul style="list-style-type: none"> • 8 channels • 25-pole male, Sub-D connector • Voltage/current configuration <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center; padding: 5px;">Screw</td><td style="width: 50%; text-align: center; padding: 5px;">T. clamp</td></tr> <tr> <td style="width: 50%; text-align: center; padding: 5px;">without LED</td><td style="width: 50%; text-align: center; padding: 5px;">9448030000 On demand</td></tr> </table>	Screw	T. clamp	without LED	9448030000 On demand
Screw	T. clamp								
without LED	8005161001 8537350000								
Screw	T. clamp								
without LED	9448030000 On demand								

Selection table for digital input cards with isolated interfaces

I2016		
Slim relay 1CO 6A		
<ul style="list-style-type: none"> • 16-channel • 20-pole ribbon connector • Gold contact relay 		
Screw	T. clamp	
24 V DC Input	1312000000	1312010000
48 V DC Input	1312020000	

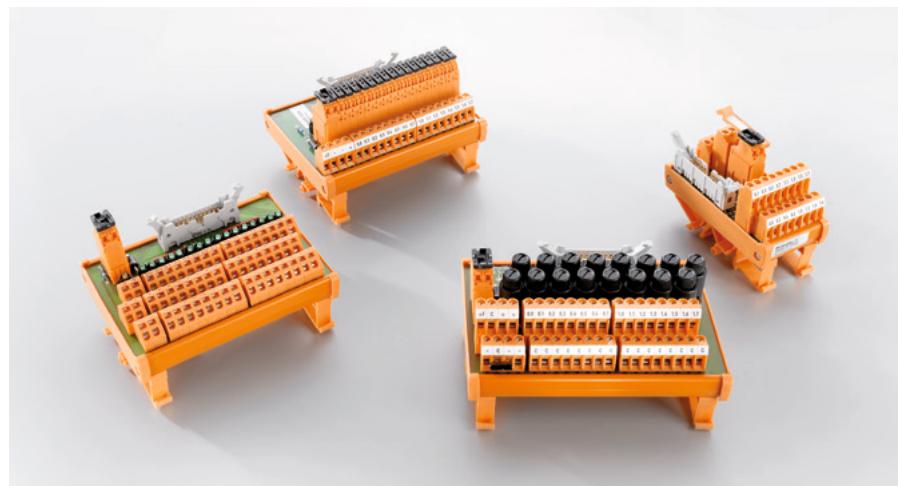
Selection table for digital output cards with isolated interfaces

O2008		
Slim relay 1CO 6A		
<ul style="list-style-type: none"> • 8-channel • 20-pole ribbon connector • 1 Changeover 		
Screw	T. clamp	
without SWITCH	1456540000	1456570000
with SWITCH	1128990000	1129000000
Relay 1CO 16A		
<ul style="list-style-type: none"> • 8-channel • 20-pole ribbon connector • 1 Changeover 		
Screw	T. clamp	
without SWITCH	9445000000	9447000000

02016 (positive switching)		
Slim relay 1CO 6A	Relay 1CO 16A	Relay 1CO 16A
<ul style="list-style-type: none"> • 16-channel • 20-pole ribbon connector • 1 Changeover 	<ul style="list-style-type: none"> • 16-channel • 20-pole ribbon connector • 1 Changeover 	<ul style="list-style-type: none"> • 16-channel • 20-pole ribbon connector • 1 Changeover
Screw	Screw	Screw
T. clamp	T. clamp	T. clamp
without SWITCH	1457300000	9445100000
with SWITCH	1129030000	1129130000
Relay 1CO 16A + Disconnectors	Relay 2CO 8A	Relay 1CO 16A + Fus
<ul style="list-style-type: none"> • 16-channel • 2x 20-pole ribbon connector • 1 changeover with disconnector 	<ul style="list-style-type: none"> • 16-channel • 20-pole ribbon connector • 2 Changeover 	<ul style="list-style-type: none"> • 16-channel • 20-pole ribbon connector • 1 changeover with fuses
Screw	Screw	Screw
T. clamp	T. clamp	T. clamp
without SWITCH	1431720000	9445120000
On demand	1449210000	1129120000

02016N (Negative switching)		
Slim relay 1CO 6A	Relay 1CO 16A	Relay 2CO 8A
<ul style="list-style-type: none"> • 16-channel • 20-pole ribbon connector • 1 Changeover 	<ul style="list-style-type: none"> • 16-channel • 20-pole ribbon connector • 1 Changeover 	<ul style="list-style-type: none"> • 16-channel • 20-pole ribbon connector • 2 Changeover
Screw	Screw	Screw
T. clamp	T. clamp	T. clamp
without SWITCH	1457310000	1449220000
1457330000	1448290000	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.

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.

We cannot guarantee that there are no mistakes in the publications or software provided by us to the customer for the purpose of making orders. We try our best to quickly correct errors in our printed media.

All orders are based on our general terms of delivery, which can be reviewed on the websites of our group companies where you place your order. On demand we can also send the general terms of delivery to you.

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