

SIMATIC TOP CONNECT

System cabling for SIMATIC controllers

Innovative and efficient system cabling for your control cabinet
[siemens.com/simatic-tc](https://www.siemens.com/simatic-tc)

SIEMENS

SIMATIC TOP connect

Overview

System cabling

Cabling made easy: with SIMATIC TOP connect

To ensure functionality and constant availability of your electronic equipment, the connections linking your individual components must be reliable and error-free. SIMATIC TOP connect offers an alternative solution to conventional wiring such as single-line wiring with terminal blocks, which is often complex and fault-prone.

SIMATIC TOP connect provides you with an innovative connection system for many controllers and their distributed I/O devices, in differing versions: a fully modular connection using the building block principle and a flexible connection with bundled single wires.

For you, this means:

Clarity instead of tangled cables. A quick and secure connection instead of mixed-up contacts. And security instead of troubleshooting. Simply a TOP connection, enabling you to save up to 80% in wiring costs.

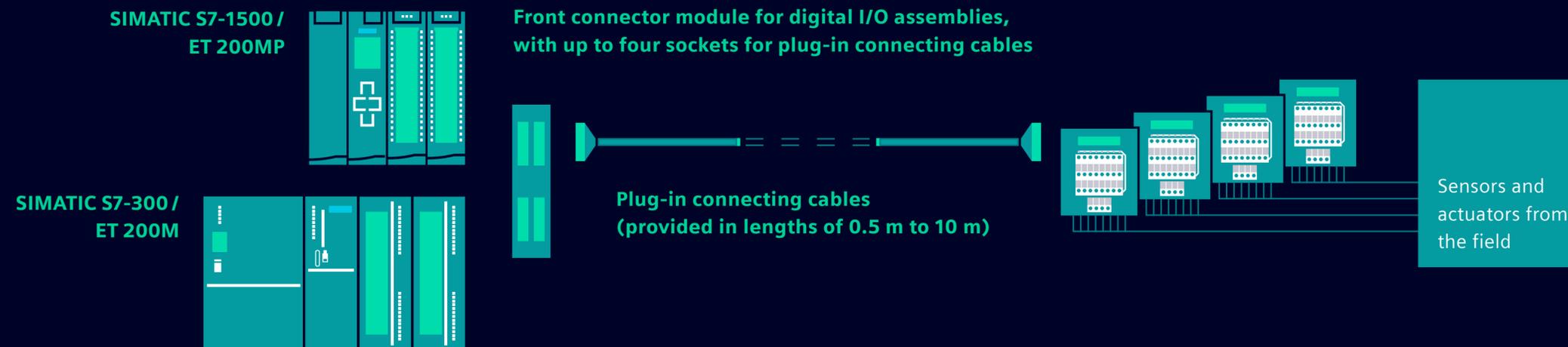


Fully modular connection – from the field

Modular 'building block' provides the fastest and most secure system cabling

Connect sensors and actuators to a SIMATIC S7 in the field easily, quickly and safely with front connector modules (modified front connectors) for the S7-1500 and S7-300, as well as plug-in connecting cables and terminal modules that replace conventional terminal blocks and also permit voltage and performance adaptation.

- Reduction of wiring errors and test times
- Uniform, clear connection diagram
- No mix-up of single wires
- Ability to replace individual components more quickly and easily
- Up to 80% saving in wiring costs



Learn more [here](#)

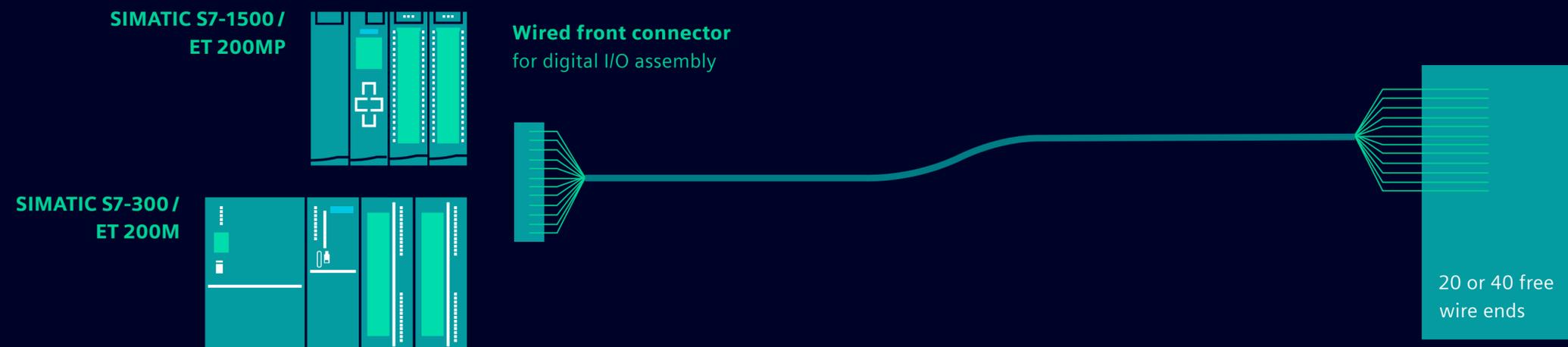


The flexible connection – simple wiring for the control cabinet

Clearly bundled single wires ensure full flexibility

The flexible connection enables sensors and actuators mounted in the control cabinet to be connected to the SIMATIC S7 more quickly and easily. To achieve this, the front connector is prewired for connection to the digital I/O assembly with 20 or 40 single wires. The clearly labeled individual wires at the other end of the wire bundle can be routed to any element in the control cabinet.

- Bundled single wires ensure clarity
- Connection security is assured thanks to matching numbers printed on wires and connecting points on the front connector
- Large cross-sections make higher currents possible
- Up to 50% can be saved in wiring costs



Learn more [here](#)

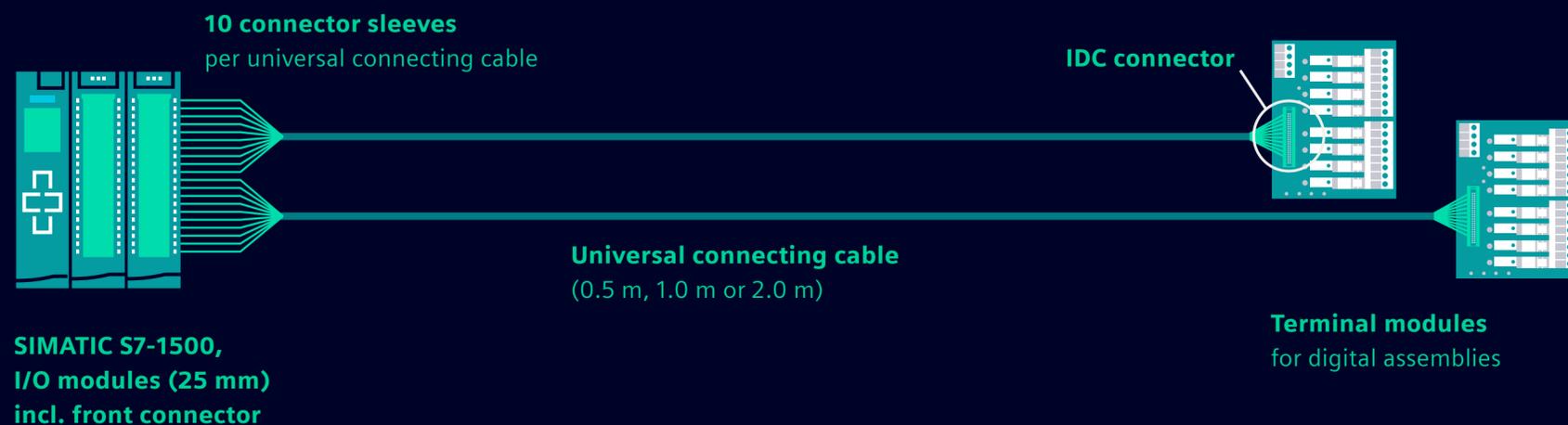
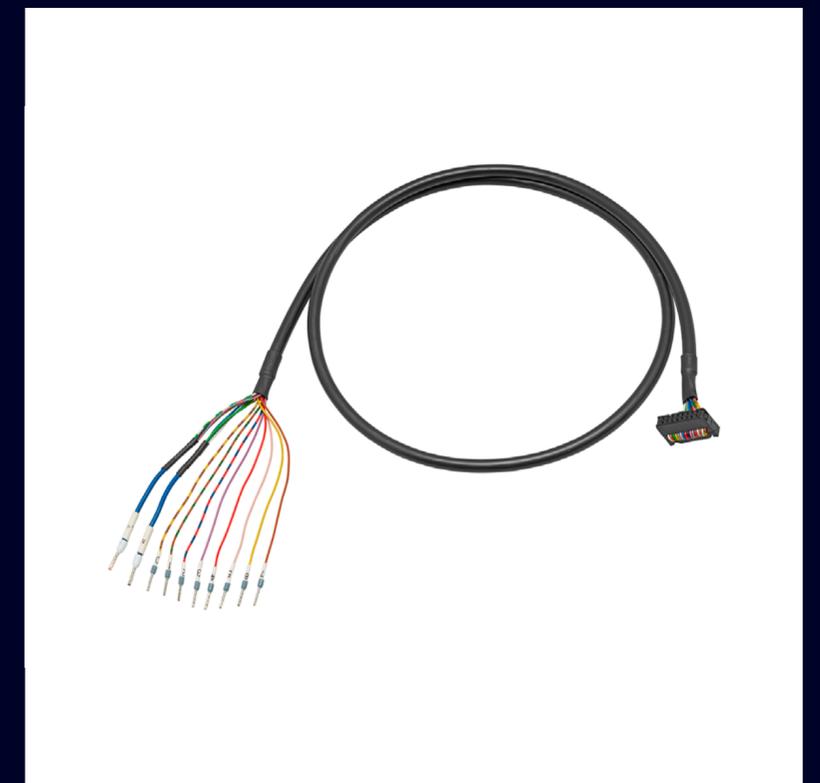


One cable for all – the universal connecting cable

For multiple local uses

The new universal connecting cable is the link between the standard connection for the SIMATIC S7-1200, SIMATIC ET 200SP, the SIMATIC S7-1500 I/O (25 mm) or the LOGO! and the SIMATIC TOP connect terminal module. The universal connecting cable carries eight signals and the supply voltage. At the controller end it has labeled connector sleeves and a 16-pin IDC plug for connection of the terminal modules.

- The use of an appropriate terminal module, ensuring error-free wiring that's twice as fast
- Connection to coupling relays for isolating and adjusting potential
- High switching frequency even at high output currents (up to 4 A) through the use of an optocoupler module
- Signal separation through the use of switch modules for measurement
- Protection of individual channels thanks to a thermal fuse in the fuse module
- Tested connecting cables for error-free operation
- At least 50% savings in wiring costs



Learn
more [here](#)



Easy configuration

TIA Selection Tool – helpful and free

- Rapid, simple selection and configuration of all necessary controllers and input/output assemblies
- Automatic preselection of the appropriate system cabling in accordance with the selected input/output assembly
- Compatible connection components in each case that can be displayed simply by clicking on “Fully modular system cabling” or “Flexible connection system”
- Automatic generation of a product list containing all of the components of your SIMATIC system, including system cabling
 - Can be saved in file form, e.g., PDF or CSV
 - Can be exported to the CAx Download Manager for further processing
 - Can be imported directly into the Siemens Industry Mall shopping basket

Vollmodulare Systemverkabelung (links);

Flexible Anschlussstechnik (rechts)

Change accessories

Fully modular system cabling

Fully modular system cabling

The fully modular connection to the digital I/O modules of the SIMATIC S7-1500 or ET 200MP consists of modified front connectors, so-called front connector modules, prefabricated connecting cables of varying length as well as terminal modules. Depending on the application, the components can be matched accordingly and joined by simple plug-in connections. The terminal modules replace conventional terminal blocks and thereby form the interface to sensors and actuators.

SIMATIC S7-1500/ ET 200MP Front connector module for I/O modules, with up to 4 sockets, for connectable cables

Connectable cables (pre-assembled with a length of 0.5 m to 10 m)

Connection module with socket for connectable cables

Sensors and actuators in the field

16-pin or 50-pin

Connection via 4x 16-pin or 1x 50-pin connecting cable

16-pin

50-pin

Front connector module

Modified front connectors, so-called front connector modules, are available for connection to the I/O modules of the SIMATIC S7-1500 and ET 200MP. These are designed so that the I/O module can be wired instead of the front connector.

Change accessories

Flexible connection system

Flexible connection system

The flexible connection of the cabling system consists of an S7-1500 front connector that is pre-wired with 20 or 40 individual cores and connects the I/O modules directly with the sensors and actuators inside the control cabinet. The individual cores with a cross section of 0.5 mm² are also suitable for higher currents and are available in various lengths and designs: as HD21/4 core cable (PVC insulation), HD22/4 (halogen-free insulation) or with UL/CSA approved cores. The halogen-free version develops low smoke density in case of fire, which makes it particularly suited for use inside buildings.

SIMATIC S7-1500/ ET 200MP Wired front connector for DI/DO module

20 or 40 free wires

Front connector with 40 single wires

Can be used for digital modules (24 VDC) of the SIMATIC S7-1500 and ET 200MP. The front connector with single wires replaces the SIMATIC standard connector.

Learn more [here](#)



Easy planning

CAx data for SIMATIC TOP connect – request and download free of charge

Additional information such as 3D data, circuit diagram macros, certificates and operating instructions are available with a click of the mouse. You can download this planning data in DXF, STEP and EPLAN formats and use it directly for your planning.

This information is also available via the CAx Download Manager and can be individually selected and downloaded there as required.

Ordering data for **SIMATIC S7-1500 / ET 200MP**

Whether you need a fully modular connection for a fast and clear link with sensors and actuators from the field or a flexible connection with bundled single wires for easy connection within the control cabinet:

Find all of the ordering data for SIMATIC S7-1500/ET 200MP here.

Connection from the field

Ordering data for SIMATIC S7-1500 / ET 200MP

Front connector modules – for input/output modules, with up to four interfaces for plug-in connecting cables

Front connector module for digital assemblies to connect 16-pin connecting cables



Power supply terminals	
Screw terminals	6ES7921-5AB20-0AA0
Push-in	6ES7921-5AH20-0AA0

Front connector module for digital assemblies to connect 50-pin connecting cables



Power supply terminals	
Screw terminals	6ES7921-5CB20-0AA0
Push-in	6ES7921-5CH20-0AA0

Front connector module for 2-ampere digital output to connect 16-pin connecting cables



Power supply terminals	
Screw terminals	6ES7921-5AD00-0AA0
Push-in	6ES7921-5AJ00-0AA0

Front connector module for analog assemblies to connect 16-pin connecting cables



Connection for four connecting cables	
6ES7921-5AK20-0AA0	

Front connector module for analog assemblies to connect 50-pin connecting cables



Connection for one connecting cable	
6ES7921-5CK20-0AA0	

Ordering data for:

Connection from the field

Ordering data for SIMATIC S7-1500 / ET 200MP

Connecting cables – plug-in, assembled round cable in lengths of 0.5 m to 10 m

Unshielded

Length	16-pin	Order	50-pin	Order	For 64k I/O assemblies	Order
0.5 m	6ES7923-0BA50-0CB0		6ES7923-5BA50-0CB0			
1.0 m	6ES7923-0BB00-0CB0		6ES7923-5BB00-0CB0		6ES7923-5BB00-0GB0	
1.5 m	6ES7923-0BB50-0CB0		6ES7923-5BB50-0CB0			
2.0 m	6ES7923-0BC00-0CB0		6ES7923-5BC00-0CB0		6ES7923-5BC00-0GB0	
2.5 m	6ES7923-0BC50-0CB0		6ES7923-5BC50-0CB0		6ES7923-5BC50-0GB0	
3.0 m	6ES7923-0BD00-0CB0		6ES7923-5BD00-0CB0		6ES7923-5BD00-0GB0	
4.0 m	6ES7923-0BE00-0CB0		6ES7923-5BE00-0CB0			
5.0 m	6ES7923-0BF00-0CB0		6ES7923-5BF00-0CB0			
6.5 m	6ES7923-0BG50-0CB0		6ES7923-5BG50-0CB0			
8.0 m	6ES7923-0BJ00-0CB0		6ES7923-5BJ00-0CB0			
10 m	6ES7923-0CB00-0CB0		6ES7923-5CB00-0CB0			



Ordering data for:

Connection from the field

Ordering data for SIMATIC S7-1500 / ET 200MP

Connecting cables – plug-in, assembled round cable in lengths of 0.5 m to 10 m

Shielded

Length	16-pin	Order	50-pin	Order
1.0 m	6ES7923-0BB00-0DB0		6ES7923-5BB00-0DB0	
2.0 m	6ES7923-0BC00-0DB0		6ES7923-5BC00-0DB0	
2.5 m	6ES7923-0BC50-0DB0		6ES7923-5BC50-0DB0	
3.0 m	6ES7923-0BD00-0DB0		6ES7923-5BD00-0DB0	
4.0 m	6ES7923-0BE00-0DB0		6ES7923-5BE00-0DB0	
5.0 m	6ES7923-0BF00-0DB0		6ES7923-5BF00-0DB0	
6.5 m	6ES7923-0BG50-0DB0		6ES7923-5BG50-0DB0	
8.0 m	6ES7923-0BJ00-0DB0		6ES7923-5BJ00-0DB0	
10 m	6ES7923-0CB00-0DB0		6ES7923-5CB00-0DB0	



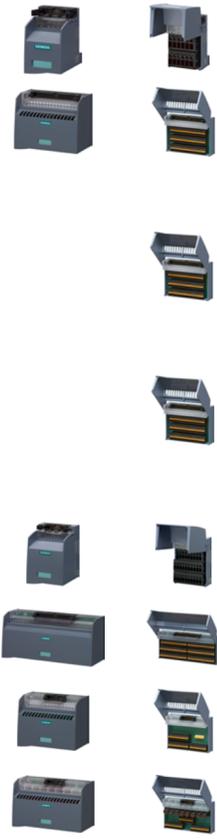
Ordering data for:

Connection from the field

Ordering data for SIMATIC S7-1500 / ET 200MP

Terminal modules – with socket for plug-in connecting cable

Connector module for digital assemblies

	Terminals	Signaling	Article number	Order	Article number	Order
	TP1 for 1-wire connection		8 E/A		32 E/A	
	Screw		6ES7924-0AA20-0AA0		6ES7924-2AA20-0AA0	
	Push-in		6ES7924-0AA20-0ACO		6ES7924-2AA20-0ACO	
	Screw	LED	6ES7924-0AA20-0BA0		6ES7924-2AA20-0BA0	
	Push-in	LED	6ES7924-0AA20-0BC0		6ES7924-2AA20-0BC0	
	TP1 DI-M read		8 E/A		32 E/A	
	Screw	LED			6ES7924-2AK20-0BA0	
	Push-in	LED			6ES7924-2AK20-0BC0	
TP1 M signal		8 E/A		32 E/A		
Screw	LED			6ES7924-2AM20-0BA0		
Push-in	LED			6ES7924-2AM20-0BC0		
TP3 for 3-wire connection		8 E/A		32 E/A		
Screw		6ES7924-0CA20-0AA0		6ES7924-2CA20-0AA0		
Push-in		6ES7924-0CA20-0ACO		6ES7924-2CA20-0ACO		
Screw	LED	6ES7924-0CA20-0BA0		6ES7924-2CA20-0BA0		
Push-in	LED	6ES7924-0CA20-0BC0		6ES7924-2CA20-0BC0		
Screw, switch	LED	6ES7924-0CH20-0BA0				
Push-in, switch	LED	6ES7924-0CH20-0BC0				
Screw, fuse	LED	6ES7924-0CL20-0BA0				
Push-in, fuse	LED	6ES7924-0CL20-0BC0				

Ordering data for:

Connection from the field

Ordering data for SIMATIC S7-1500 / ET 200MP

Connector modules – with a socket for plug-in connecting cable

Terminal module for digital assemblies

	<u>Terminals</u>	<u>Signaling</u>	<u>Article number</u>	<u>Order</u>	<u>Article number</u>	<u>Order</u>
	TPRo relay, NO contact		for 8 outputs			
	Screw	LED	6ES7924-0BD20-0BA0			
	Push-in	LED	6ES7924-0BD20-0BC0			
	TPRi relay, NO contact		for 8 inputs, 230 V AC		for 8 inputs, 110 V AC	
	Screw	LED	6ES7924-0BE20-0BA0		6ES7924-0BG20-0BA0	
	Push-in	LED	6ES7924-0BE20-0BC0		6ES7924-0BG20-0BC0	
	TPOo optocoupler module		for 8 outputs			
	Screw	LED	6ES7924-0BF20-0BA0			
	Push-in	LED	6ES7924-0BF20-0BC0			

Ordering data for:

Connection from the field

Ordering data for SIMATIC S7-1500 / ET 200MP

Connector modules – with a socket for plug-in connecting cable

Terminal module for 2 A digital output assemblies

Terminals	Signaling	Article number	Order
TP2 for 2-wire initiators		for 8 outputs	
Screw		6ES7924-0BB20-0AA0	
Push-in		6ES7924-0BB20-0AC0	

Terminal module for analog assemblies (for S7-1500 only)

Terminals	Signaling	Article number	Order	Article number	Order
TPA for analog assemblies		16-pin connection		50-pin connection	
Screw		6ES7924-0CC20-0AA0		6ES7924-2CC20-0AA0	
Push-in		6ES7924-0CC20-0AC0		6ES7924-2CC20-0AC0	

Labels

Type	Article number	Order
for terminal modules in S7-1500 design (6ES7924-...20-0..0)		
plug-in, 340 pcs	3RT2900-1SB20	

Accessories for shielding analog signals

XLPE	Article number	Order
Shielding plate for TPA, 16-pin		
4 pcs	6ES7928-1AA20-4AA0	
Shielding plate for TPA, 50-pin		
4 pcs	6ES7928-1BA20-4AA0	
Shield terminals for shielding plate, SIMATIC end		
10 pcs	6ES7590-5BA00-0AA0	
Shield terminals for shielding plate, field end		
2 pcs	6ES7390-5AB00-0AA0 (Ø 2x 2...6 mm)	
2 pcs	6ES7390-5BA00-0AA0 (Ø 3...8 mm)	
2 pcs	6ES7390-5CA00-0AA0 (Ø 4...13 mm)	



Ordering data for:

Wiring in the control cabinet

Ordering data for SIMATIC S7-1500 / ET 200MP

Front connector – with single wires prewired for digital I/O assembly

Front connector completely preassembled (from pin 1 to 40)

Front connector partly preassembled (from pin 1 to 20)



Length	for 32 digital I/O modules	Order
Wire type H05V-K (0.5 mm ² with screw connection)		
2.5 m	6ES7922-5BC50-0AC0	
3.2 m	6ES7922-5BD20-0AC0	
5.0 m	6ES7922-5BF00-0AC0	
6.5 m	6ES7922-5BG50-0AC0	
8.0 m	6ES7922-5BJ00-0AC0	
10 m	6ES7922-5CB00-0AC0	
Wire type H05Z-K, halogen-free (0.5 mm ² with screw connection)		
2.5 m	6ES7922-5BC50-0HCO	
3.2 m	6ES7922-5BD20-0HCO	
5.0 m	6ES7922-5BF00-0HCO	
6.5 m	6ES7922-5BG50-0HCO	
8.0 m	6ES7922-5BJ00-0HCO	
10 m	6ES7922-5CB00-0HCO	
Wire type UL/CSA-certified (0.5 mm ² with screw connection)		
3.2 m	6ES7922-5BD20-0UC0	
5.0 m	6ES7922-5BF00-0UC0	
6.5 m	6ES7922-5BG50-0UC0	



Length	for 16 digital I/O modules	Order
Wire type H05V-K (0.5 mm ² with screw connection)		
2.5 m	6ES7922-5BC50-0AB0	
3.2 m	6ES7922-5BD20-0AB0	
5.0 m	6ES7922-5BF00-0AB0	
6.5 m	6ES7922-5BG50-0AB0	
8.0 m	6ES7922-5BJ00-0AB0	
10 m	6ES7922-5CB00-0AB0	
Wire type H05Z-K, halogen-free (0.5 mm ² with screw connection)		
2.5 m	6ES7922-5BC50-0HBO	
3.2 m	6ES7922-5BD20-0HBO	
5.0 m	6ES7922-5BF00-0HBO	
6.5 m	6ES7922-5BG50-0HBO	
8.0 m	6ES7922-5BJ00-0HBO	
10 m	6ES7922-5CB00-0HBO	
Wire type UL/CSA-certified (0.5 mm ² with screw connection)		
3.2 m	6ES7922-5BD20-0UB0	
5.0 m	6ES7922-5BF00-0UB0	
6.5 m	6ES7922-5BG50-0UB0	

Ordering data for:

Ordering data for **SIMATIC S7-300 / ET 200M**

Whether you need a fully modular connection for a fast and clear connection with sensors and actuators from the field or a flexible connection with bundled single wires for easy connection within the control cabinet:

Find all of the ordering data for SIMATIC S7-300/ET 200M here.

Connection from the field

Ordering data for SIMATIC S7-300 / ET 200M

Front connector modules – for input/output modules, with up to four interfaces for plug-in connecting cables

Front connector module for SIMATIC S7-300 compact CPU 31 and digital assemblies



Power supply terminals	Article number	Order
For SIMATIC S7-300 compact CPU 312C		
Screw terminals	6ES7921-3AK20-0AA0	
SIMATIC S7-300 compact CPU 313C; CPU 314C-2PtP; CPU 314C-2DP		
Screw terminals	6ES7921-3AM20-0AA0	
SIMATIC S7-300, 2x 8 I/O digital		
Screw terminals	6ES7921-3AB00-0AA0	
Spring-loaded terminals	6ES7921-3AA00-0AA0	
SIMATIC S7-300, 4x 8 I/O digital		
Screw terminals	6ES7921-3AB20-0AA0	
Spring-loaded terminals	6ES7921-3AA20-0AA0	

For 2-ampere digital output



Power terminals	Article number	Order
SIMATIC S7-300, 8DA		
Screw terminals	6ES7921-3AD00-0AA0	
Spring-loaded terminals	6ES7921-3AC00-0AA0	

Front connector module for I/O for analog assemblies



Power terminals	Article number	Order
SIMATIC S7-300 (20-pin)		
Screw terminals	6ES7921-3AG00-0AA0	
Spring-loaded terminals	6ES7921-3AF00-0AA0	
SIMATIC S7-300 (40-pin)		
Screw terminals	6ES7921-3AG20-0AA0	
Spring-loaded terminals	6ES7921-3AF20-0AA0	

Ordering data for:

Connection from the field

Ordering data for SIMATIC S7-300 / ET 200M

Connecting cables – plug-in, assembled round cable in lengths of 0.5 m to 10 m

Unshielded

Length	16-pin	Order	4x 16-pin (front connector module 2x or 4x 8 I/O digital) on 50-pin (terminal module):	Order
0.5 m	6ES7923-0BA50-0CB0		6ES7923-5BA50-0EBO	
1.0 m	6ES7923-0BB00-0CB0		6ES7923-5BB00-0EBO	
1.5 m	6ES7923-0BB50-0CB0		6ES7923-5BB50-0EBO	
2.0 m	6ES7923-0BC00-0CB0		6ES7923-5BC00-0EBO	
2.5 m	6ES7923-0BC50-0CB0		6ES7923-5BC50-0EBO	
3.0 m	6ES7923-0BD00-0CB0		6ES7923-5BD00-0EBO	
4.0 m	6ES7923-0BE00-0CB0		6ES7923-5BE00-0EBO	
5.0 m	6ES7923-0BF00-0CB0		6ES7923-5BF00-0EBO	
6.5 m	6ES7923-0BG50-0CB0		6ES7923-5BG50-0EBO	
8.0 m	6ES7923-0BJ00-0CB0		6ES7923-5BJ00-0EBO	
10 m	6ES7923-0CB00-0CB0		6ES7923-5CB00-0EBO	



Shielded

Length	16-pin	Order
1.0 m	6ES7923-0BB00-0DB0	
2.0 m	6ES7923-0BC00-0DB0	
2.5 m	6ES7923-0BC50-0DB0	
3.0 m	6ES7923-0BD00-0DB0	
4.0 m	6ES7923-0BE00-0DB0	
5.0 m	6ES7923-0BF00-0DB0	
6.5 m	6ES7923-0BG50-0DB0	
8.0 m	6ES7923-0BJ00-0DB0	
10 m	6ES7923-0CB00-0DB0	



Ordering data for:

Connection from the field

Ordering data for SIMATIC S7-300 / ET 200M

Connector modules – with socket for plug-in connecting cable

Terminal module for digital assemblies

	Terminals	Signaling	Article number	Order	Article number	Order
	TP1 for 1-wire connection		8 I/O		32 I/O	
	Screw		6ES7924-0AA20-0AA0		6ES7924-2AA20-0AA0	
	Push-in		6ES7924-0AA20-0ACO		6ES7924-2AA20-0ACO	
	Screw	LED	6ES7924-0AA20-0BA0		6ES7924-2AA20-0BA0	
	Push-in	LED	6ES7924-0AA20-0BC0		6ES7924-2AA20-0BC0	
	TP3 for 3-wire connection		8 I/O		32 I/O	
	Screw		6ES7924-0CA20-0AA0		6ES7924-2CA20-0AA0	
	Push-in		6ES7924-0CA20-0ACO		6ES7924-2CA20-0ACO	
	Screw	LED	6ES7924-0CA20-0BA0		6ES7924-2CA20-0BA0	
	Push-in	LED	6ES7924-0CA20-0BC0		6ES7924-2CA20-0BC0	
	Screw, switch	LED	6ES7924-0CH20-0BA0			
	Push-in, switch	LED	6ES7924-0CH20-0BC0			
	Screw, fuse	LED	6ES7924-0CL20-0BA0			
Push-in, fuse	LED	6ES7924-0CL20-0BC0				

Ordering data for:

Connection from the field

Ordering data for SIMATIC S7-300 / ET 200M

Connector modules – with socket for plug-in connecting cable

Terminal module for digital assemblies

	Terminals	Signaling	Article number	Order	Article number	Order
	TPRo relay, NO contact		For 8 outputs			
	Screw	LED	6ES7924-0BD20-0BA0			
	Push-in	LED	6ES7924-0BD20-0BC0			
	TPRi relay, NO contact		For 8 inputs, 230 V AC		For 8 inputs, 110 V AC	
	Screw	LED	6ES7924-0BE20-0BA0		6ES7924-0BG20-0BA0	
	Push-in	LED	6ES7924-0BE20-0BC0		6ES7924-0BG20-0BC0	
	TPOo optocoupler module		For 8 outputs			
	Screw	LED	6ES7924-0BF20-0BA0			
	Push-in	LED	6ES7924-0BF20-0BC0			

Ordering data for:

Connection from the field

Ordering data for SIMATIC S7-300 / ET 200M

Terminal modules – with interface for plug-in connecting cable

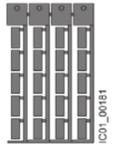
Terminal module for 2 A digital assemblies

	Terminals	Signaling	Article number	Order
	TP2 for 2-wire initiators		For 8 outputs	
	Screw		6ES7924-0BB20-0AA0	
	Push-in		6ES7924-0BB20-0ACO	

Terminal module for analog assemblies (for S7-300 only)

	Terminals	Signaling	Article number	Order
	TP2 for analog assemblies		16-pin connection	
	Screw		6ES7924-0CC21-0AA0	
	Push-in		6ES7924-0CC21-0ACO	

Labels

	Type	Article number	Order
	for terminal modules (6ES7924- ...20-0..0)		
	plug-in, 340 pcs	3RT2900-1SB20	

Accessories for shielding analog signals

XLPE	Article number	Order
Shielding plate for TPA, 16-pin		
4 pcs	6ES7928-1AA20-4AA0	
Shield terminals for shielding plate, SIMATIC end		
10 pcs	6ES7590-5BA00-0AA0	
Shield terminals for shielding plate, field end		
2 pcs	6ES7390-5AB00-0AA0 (Ø 2x 2...6 mm)	
2 pcs	6ES7390-5BA00-0AA0 (Ø 3...8 mm)	
2 pcs	6ES7390-5CA00-0AA0 (Ø 4...13 mm)	



Ordering data for:

Wiring in the control cabinet

Ordering data for SIMATIC S7-300 / ET 200M

Front connector – with single wires prewired for digital I/O assembly

Front connector completely preassembled (from pin 1 to 40)



Length	Packaging unit	for 32 digital I/O modules	Order
Wire type H05V-K (0.5 mm² with screw connection)			
2.5 m	1 pc	6ES7922-3BC50-0ACO	
3.2 m	1 pc	6ES7922-3BD20-0ACO	
5.0 m	1 pc	6ES7922-3BF00-0ACO	
2.5 m	5 pcs	6ES7922-3BC50-5ACO	
3.2 m	5 pcs	6ES7922-3BD20-5ACO	
5.0 m	5 pcs	6ES7922-3BF00-5ACO	
Wire type H05V-K (0.5 mm² with crimp connection)			
2.5 m	1 pc	6ES7922-3BC50-0AGO	
3.2 m	1 pc	6ES7922-3BD20-0AGO	
5.0 m	1 pc	6ES7922-3BF00-0AGO	
Wire type UL/CSA-certified (0.5 mm² with screw connection)			
3.2 m	1 pc	6ES7922-3BD20-0UCO	
5.0 m	1 pc	6ES7922-3BF00-0UCO	

Front connector partly preassembled (from pin 1 to 20)



Length	Packaging unit	for 16 digital I/O modules	Order
Wire type H05V-K (0.5 mm² with screw connection)			
2.5 m	1 pc	6ES7922-3BC50-0AB0	
3.2 m	1 pc	6ES7922-3BD20-0AB0	
5.0 m	1 pc	6ES7922-3BF00-0AB0	
2.5 m	5 pcs	6ES7922-3BC50-5AB0	
3.2 m	5 pcs	6ES7922-3BD20-5AB0	
5.0 m	5 pcs	6ES7922-3BF00-5AB0	
Wire type H05V-K (0.5 mm² with crimp connection)			
2.5 m	1 pc	6ES7922-3BC50-0AF0	
3.2 m	1 pc	6ES7922-3BD20-0AF0	
5.0 m	1 pc	6ES7922-3BF00-0AF0	
Wire type UL/CSA-certified (0.5 mm² with screw connection)			
3.2 m	1 pc	6ES7922-3BD20-0UB0	
5.0 m	1 pc	6ES7922-3BF00-0UB0	

Ordering data for:

Ordering data for **SIMATIC S7-1200,** **S7-1500 I/O (25 mm), ET 200SP and LOGO!**

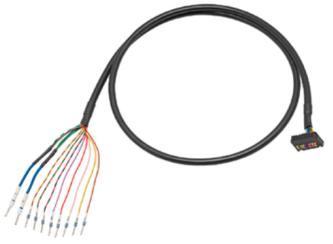
As the link between the standard connection and the SIMATIC TOP connect terminal module, the universal connecting cable transmits eight signals and the supply voltage:

Find all of the ordering data for the universal connecting cable and the appropriate terminal modules here.

System cabling

Ordering data for SIMATIC S7-1200, S7-1500 I/O (25 mm), ET 200SP and LOGO!

Universal connecting cables – plug-in, assembled round cable
in lengths of 0.5 m to 2 m



Length	Article number	Order
0.5 m	6ES7923-0BA50-0FB0	
1.0 m	6ES7923-0BB00-0FB0	
2.0 m	6ES7923-0BC00-0FB0	

- Operating voltage: max. 50 V DC
- Permissible continuous current per signal line: 1 ampere / 4 amperes per byte
- Connecting cable: 16 x 0.14 mm² unshielded

System cabling

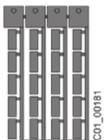
Ordering data for SIMATIC S7-1200, S7-1500 I/O (25 mm), ET 200SP and LOGO!

Terminal modules – for digital assemblies

	Terminals	Signaling	Article number	Order	
	TP1 for 1-wire connection		8 I/O		
	Screw		6ES7924-0AA20-0AA0		
	Push-in		6ES7924-0AA20-0ACO		
	Screw	LED	6ES7924-0AA20-0BA0		
	TP3 for 3-wire connection		8 I/O		
	Push-in		6ES7924-0CA20-0ACO		
	Screw	LED	6ES7924-0CA20-0BA0		
	Push-in	LED	6ES7924-0CA20-0BC0		
	Screw, switch	LED	6ES7924-0CH20-0BA0		
	Push-in, switch	LED	6ES7924-0CH20-0BC0		
		Screw, fuse	LED	6ES7924-0CL20-0BA0	
		Push-in, fuse	LED	6ES7924-0CL20-0BC0	

	Terminals	Signaling	Article number	Order	Article number	Order
	TPRo relay, NO contact		For 8 outputs			
	Screw	LED	6ES7924-0BD20-0BA0			
	Push-in	LED	6ES7924-0BD20-0BC0			
	TPRi relay, NO contact		For 8 inputs, 230 V AC		For 8 inputs, 110 V AC	
	Screw	LED	6ES7924-0BE20-0BA0		6ES7924-0BG20-0BA0	
	Push-in	LED	6ES7924-0BE20-0BC0		6ES7924-0BG20-0BC0	
	TPOo optocoupler module		For 8 outputs			
	Screw	LED	6ES7924-0BF20-0BA0			
	Push-in	LED	6ES7924-0BF20-0BC0			

Labels

	Type	Article number	Order
	for terminal modules (6ES7924-0...20-0..0)		
	plug-in, 340 pcs	3RT2900-1SB20	

Ordering data for **SIMATIC ET 200SP HA**

As the link between the SIMATIC ET 200SP HA terminal and the distribution boxes, the connecting cable transmits 32 signals:
Find all of the ordering data for the SIMATIC ET 200SP HA connecting cable here.

Wiring in the control cabinet

Ordering data for SIMATIC ET 200SP HA

Connecting cables – plug-in, assembled round cable in lengths of 1 m to 8 m

Shielded connection cable with D-Sub connector (37-pole socket) for connection to the terminal block (D-Sub variant) of the SIMATIC ET 200SP HA. The field side of the connection cable has an open cable end with wire end sleeve and is labeled with the individual channels.



**Shielded connection cable with 20 conductors 0.56 mm²
for Failsafe ET 200SP HA, F-DQ 10x24VDC/2A HA**

Length	Article number	Order
1.0 m	6ES7923-1BB00-0HDO	
3.0 m	6ES7923-1BD00-0HDO	
5.0 m	6ES7923-1BF00-0HDO	
8.0 m	6ES7923-1BJ00-0HDO	

**Shielded connection cable with 32 conductors 0.34 mm²,
applications for 24 VDC/max. 0.5 A**

Length	Article number	Order
1.0 m	6ES7923-3BB00-0HCO	
3.0 m	6ES7923-3BD00-0HCO	
5.0 m	6ES7923-3BF00-0HCO	
8.0 m	6ES7923-3BJ00-0HCO	

Ordering data for:



Learn more:
siemens.com/simatic-tc

**For further information on
SIMATIC TOP connect:**

- > **TIA Selection Tool:**
siemens.com/tia-selection-tool
- > **CAX data (2D, 3D, circuit diagram macro):**
siemens.com/cax
- > **Tender specification texts:**
sie.ag/3SLJ1B4

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