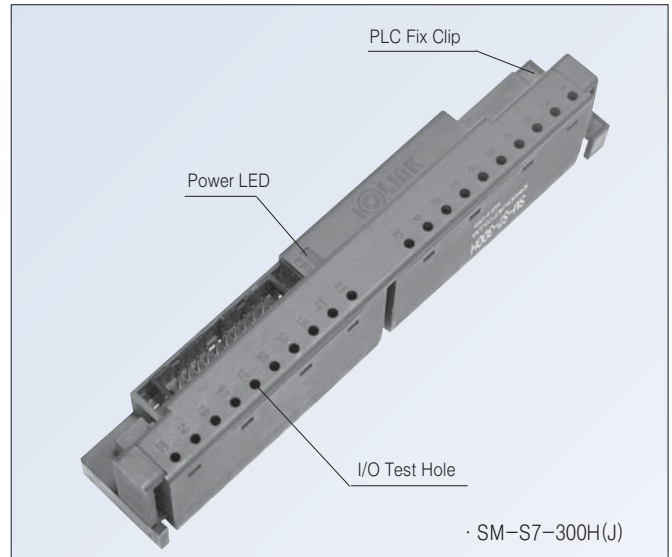
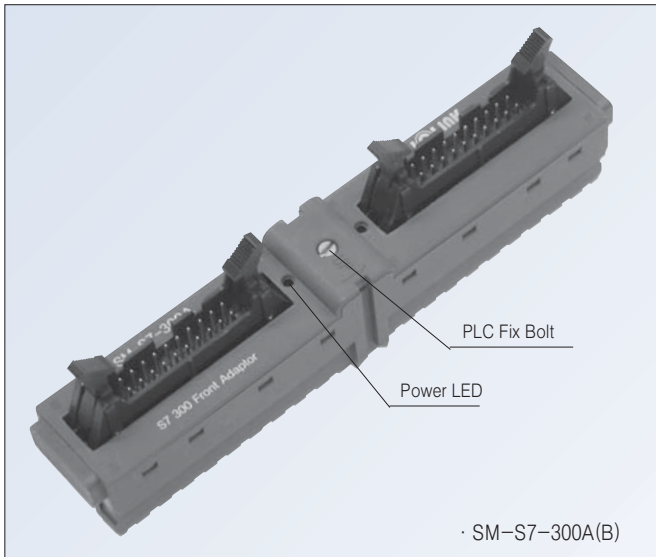


SM-S7-300 Series

SIEMENS PLC S7-300 Series front connector module

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■ Features

- **Innovative Reduction of Wiring labor**
As it uses a module with connector mounted instead of a module of screw-typed terminal unit, the wiring process speed for I/O cable is saved more than 90%, the realization of innovative wiring.
- **Supply of Standard Cable dedicated for I/O, Special Cards**
 - As we supply cable with standard specification that is connected with our terminal unit and relay board, labor is drastically reduced.
 - It is possible to prevent wrong wiring basically by connecting once-for-all with cable and it is very simple to maintain and repair when using it.
- **Simple connection with relay board of our terminal unit**
As the wiring is carried out by connector, it is possible to connect by using our product and standard cable. It is possible to select a terminal unit and relay board suitable for usages.
- **Convenient Design for the benefits of users**
 - It is easy to check the state of wiring by mounting LED for confirmation when permitting an external power source. (A, H model)
 - It makes it possible to prevent PLC from being broken due to wrong wiring at the Power supply mechanism by mounting an anti-reverse diode. (A, H model)

■ Application Card (S7-300 Series)

- 6ES7 321-1BL00-0AA0 40Pin 32 point Digital Input
- 6ES7 322-1BL00-0AA0 40Pin 32 point Digital Output
- 6ES7 323-1BL00-0AA0 40Pin 32 point Digital 16 Input / 16 Output
- 6ES7 321-1BH02-0AA0 20Pin 16 point Digital Input
- 6ES7 322-1BH01-0AA0 20Pin 16 point Digital Output
- 6ES7 323-1BH00-0AA0 20Pin 16 point Digital 16 Input / 16 Output
- 6ES7 331-1KF01-0AB0 40Pin 8 point Analog Input 13Bit
- 6ES7 332-5HF00-0AB0 40Pin 8 point Analog Output 11/12Bit
- 6ES7 331-7KF02-0AB0 20Pin 8 point Analog Input 9/12/14Bit
- 6ES7 331-7KB02-0AB0 20Pin 2 point Analog Input 9/12/14Bit
- 6ES7 332-5HD01-0AB0 20Pin 4 point Analog Input 11/12Bit
- 6ES7 332-5HB01-0AB0 20Pin 2 point Analog Input 11/12Bit
- 6ES7 334-0CE01-0AA0 20Pin Analog 4 Input / 2 Output

* For other front connector-typed card other than above model, please contact us for an inquiry.

■ Model Composition



- ① Siemens Connector Module
- ② Application of S7-300 Series PLC
- ③ Number of I/O Ports and Specification

■ Model Selection

Model	Number of I/O point	Number of I/O point	Mounted connector	Mounted connector Model	Internal circuit	Use
SM-S7-300A	32 Point	40	MIL Standard	HIF3BA-20PA-2.54DSA*2	Power LED, Power Diode	Digital I/O only
SM-S7-300B					non.	Digital I/O, analog
SM-S7-300H	16 Point	20		XG4C-2031	Power LED, Power Diode	Digital I/O only
SM-S7-300J					non.	Digital I/O, analog

* Mounted connector is compatible type and can change without giving a notice in advance.



SM-S7-300 Series

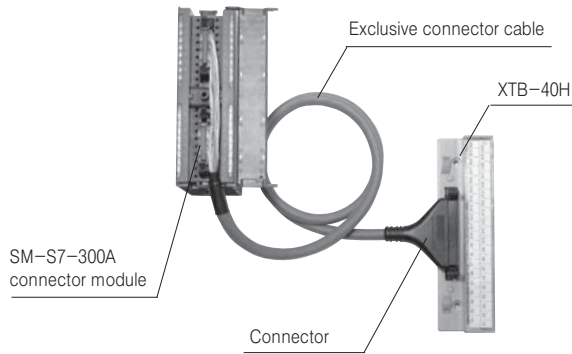
SIEMENS PLC S7-300 Series front connector module

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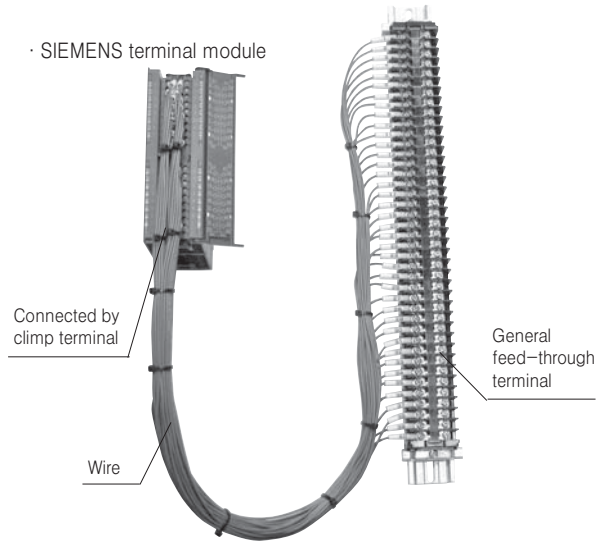
■ Comparison of Wiring between Siemens S7-300 Series Terminal Unit Module and Our Connector Module

Reduction of Work Process, Cost, and Space

· Our connector module

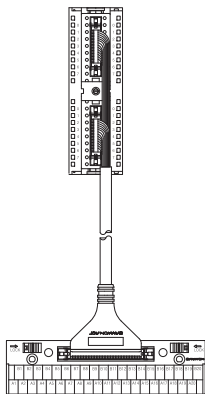


· SIEMENS terminal module

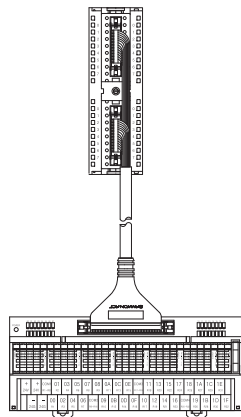


■ Examples of Connection between Siemens S7-300 Series 32 Ports Digital I/O and our Terminal Unit & Relay board

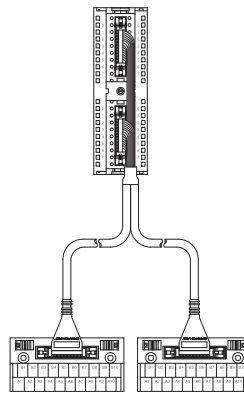
· Case of 40 pin terminal block for I/O card



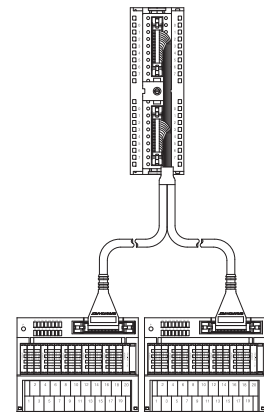
· Case of 32 point relay board for 32 point output board



· Case of 20 pin terminal block for I/O card



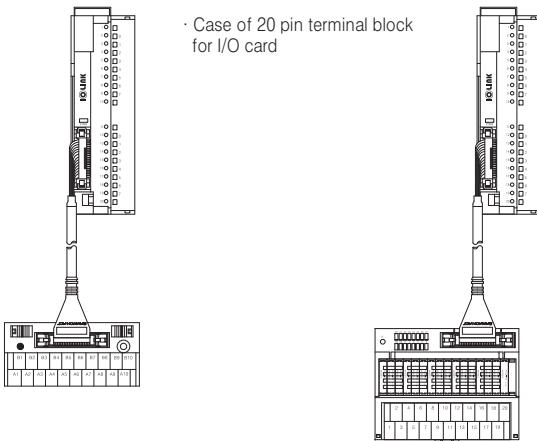
· Case of 16 point relay board for output card



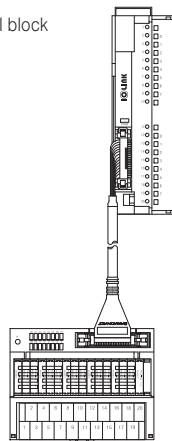
* Can use combination Relay Board with Terminal Block for 32point output card.

■ Examples of Connection between Siemens S7-300 Series 16 Ports Digital I/O and our Terminal Unit & Relay board

· Case of 20 pin terminal block for I/O card



· Case of 16 point relay board for output card



■ Twin-typed Protection Tube mounted



* It has a clean appearance and cable is not trapped in a module or a cover.

SM-S7-300 Series



SIEMENS PLC S7-300 Series front connector module

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■ Selection List of Cable for the Connection of Siemens S7-300 Series PLC Card

PLC card model	PLC connector module	Number of I/O point	Terminal block used for In/Output				Relay board used for output						
			Terminal block	Q'ty	Applicable cable	Q'ty	Relay board	Q'ty	Applicable cable	Q'ty			
6ES7 321-1BL00-0AA0	SM-S7-300A	32(IN)	XTB-40H TG7-1H40Q TG7-1H40C SR-1H40S SA-1H40S SE-1H40I * cable for TG7-1H40L-P, TGF-1H40L-P terminal block noted in page 16	1	R40HH-□SM	1							
6ES7 323-1BL00-0AA0	SM-S7-300B	32(IN/OUT)											
6ES7 331-1KF01-0AB0	SM-S7-300B	40P ANALOG											
6ES7 332-5HF00-0AB0													
6ES7 322-1BL00-0AA0	SM-S7-300A SM-S7-300B	32(OUT)	R32C-YPT R32C-YPT-V R32C-PS5A-40P R32C-PS5A-V R32G-PT R32J-PT	1	R40HH-□SM-RP	1							
6ES7 322-1BP00-0AA0		64(OUT)								C40HF-□SB-2	1	C40HF-□SB-SMP2	1
6ES7 321-1BP00-0AA0		64(IN)								C40HF-□SB-3	1	C40HF-□SB-SMP3	1
6ES7 321-1BH02-0AA0	SM-S7-300H	16(IN)	XTB-20H SE-1H20I SA-1H20S	1	C20HH-□SM	1							
6ES7 323-1BH00-0AA0	SM-S7-300J	16(IN/OUT)											
6ES7 331-7KF02-0AB0	SM-S7-300J	20P ANALOG											
6ES7 331-7KB02-0AB0													
6ES7 332-5HD01-0AB0													
6ES7 332-5HB01-0AB0													
6ES7 334-0CE01-0AA0													
6ES7 322-1BH01-0AA0											SM-S7-300H SM-S7-300J	16(OUT)	R16C-YPT R16C-YPC R16C-PS5A-20P R16C-PS5A-34P

* Connection Diagram between Interface Terminal Unit 40P and S7-300 Digital I/O Module

1. When using 6ES7 321-1BL00-0AA0(32 point input) & R40HH-□SM(IO Cable)

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.7	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.7	-24G	
A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16	A17	A18	A19	A20	
	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7			1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	-24G	

2. When using 6ES7 322-1BL00-0AA0(32 point output) and R40HH-□SM(IO Cable)
When using 6ES7 323-1BL00-0AA0(32 point in/output)

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	+24V	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	-24G	+24V	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	-24G
A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16	A17	A18	A19	A20	
+24V	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	-24G	+24V	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	-24G	

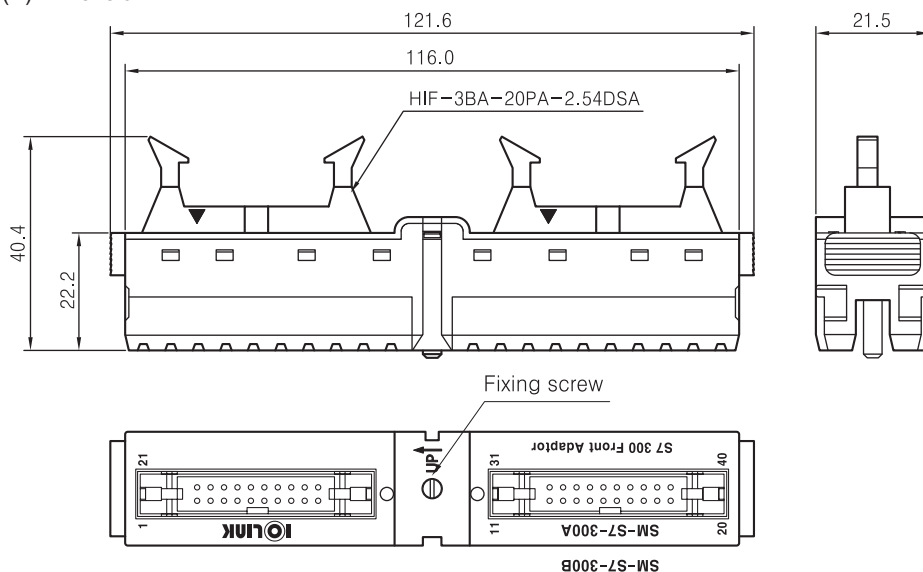
3. When using 6ES7 321-1BP00-0AA0(64 point input) and C40HF-□SB-2,3(IO Cable)

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	-24G	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	-24G		
A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16	A17	A18	A19	A20	
0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	-24G	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	-24G			

4. When using 6ES7 322-1BP00-0AA0(64 point output) and C40HF-□SB-2,3(IO Cable)

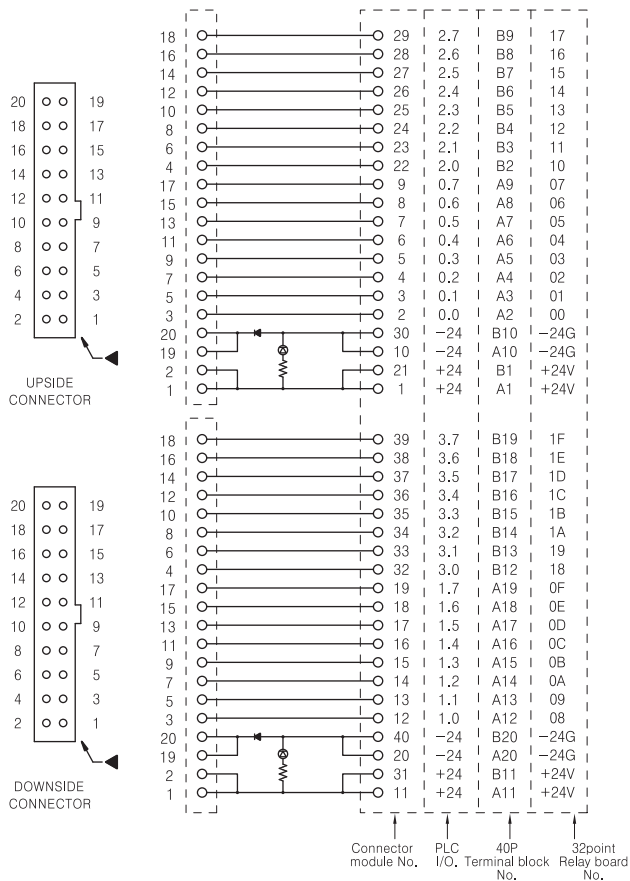
	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	-24G	+24V	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	-24G	+24V
A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16	A17	A18	A19	A20	
0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	-24G	+24V	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	-24G	+24V	

■ SM-S7-300A(B) Dimension

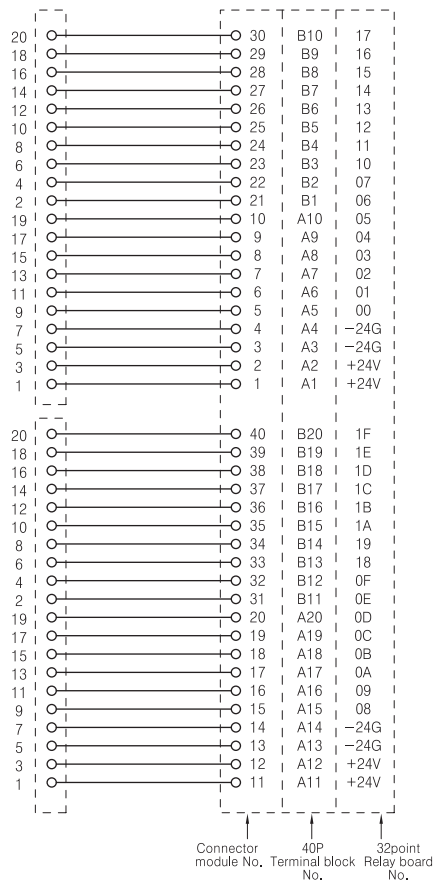


■ Wiring diagram

* SM-S7-300A

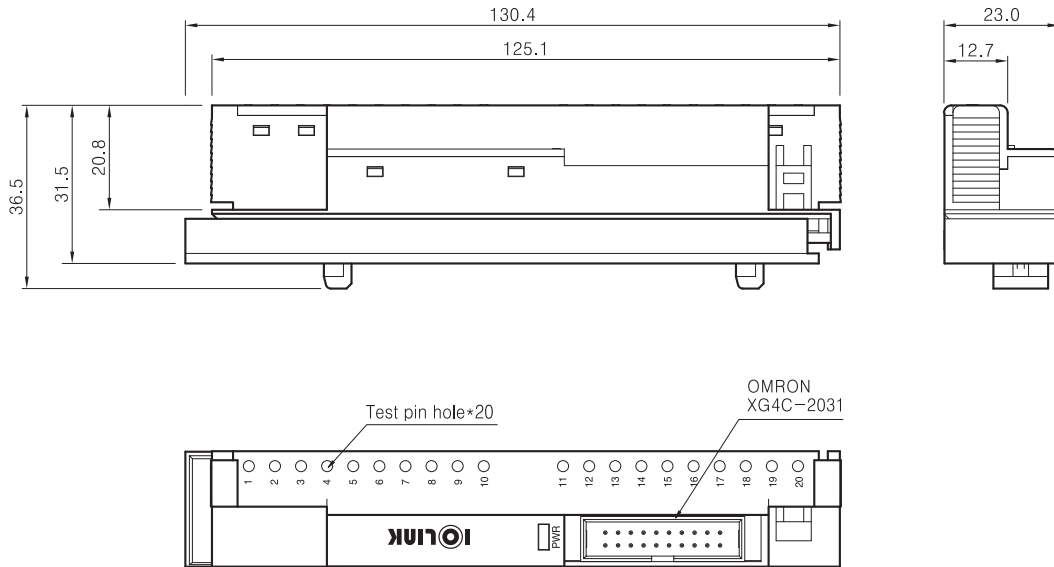


* SM-S7-300B



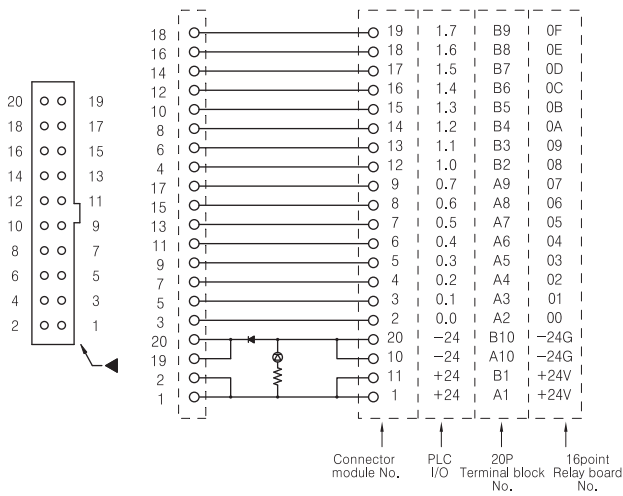
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■ SM-S7-300H(J) Dimension



■ Wiring diagram

* SM-S7-300H



* SM-S7-300J

