

# System cabling for Siemens SIMATIC® ET 200SP HA

Application note  
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## 1 Description

A connection between I/O modules and the field level can be implemented using the three system components including front adapter, system cable, and module.

The front adapter is directly inserted in the terminal block of the ET 200SP HA and comes into contact with all the 36 Push-in connections.

Once plugged in, the front adapter and terminal block form a single unit and can no longer be separated.

Connect the front adapter to the field module using shielded system cables with D-SUB connectors.

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## 2 Front adapter

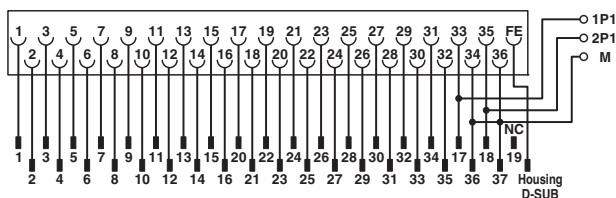
- 37-pos. D-SUB male strip in accordance with IEC 807-2/DIN 41652
- Screw connection: 2 UNC 4-40 screws
- Optional separate voltage supply



Once plugged in, the front adapter and terminal block can no longer be separated.



Description	Number of positions	Type	Order No.	Pcs./Pkt.
VARIOFACE front adapter for ET 200SP HA with D-SUB male strip for digital 24 V DC and analog peripheral modules	37	FLKM-PA-D37/ETHA	1076338	1



### Explanation:

- D-SUB male strip
- Connection to terminal block (I/O card)
- Screw terminal blocks for separate supply

### 3 Shielded system cables with two D-SUB socket strips

#### 3.1 PVC system cable

- Assembly: D-SUB socket strip at both ends in accordance with IEC 807-2/DIN 41652 (1:1 connection)
- Cable outlet: straight
- Metal-plated housing
- Screw connection: 2 UNC 4-40 screws
- Variable cable length is defined by means of an order key



Description	Number of positions	Cable length	Type	Order No.	Pcs./Pkt.
<b>Assembled PVC round cable</b> , with 37-pos. D-SUB socket strip in fixed lengths	37	1.0 m	CABLE-D 37SUB/B/B/100/KONFEK/S	2305509	1
		2.0 m	CABLE-D 37SUB/B/B/200/KONFEK/S	2305512	1
		3.0 m	CABLE-D 37SUB/B/B/300/KONFEK/S	2305525	1
		4.0 m	CABLE-D 37SUB/B/B/400/KONFEK/S	2900759	1
		6.0 m	CABLE-D 37SUB/B/B/600/KONFEK/S	2900760	1
		8.0 m	CABLE-D 37SUB/B/B/800/KONFEK/S	2900761	1
		10.0 m	CABLE-D 37SUB/B/B/1000/KONFEK/S	2900762	1
		15.0 m	CABLE-D 37SUB/B/B/1500/KONFEK/S	2900763	1
		20.0 m	CABLE-D 37SUB/B/B/2000/KONFEK/S	2900764	1
		25.0 m	CABLE-D 37SUB/B/B/2500/KONFEK/S	2902074	1
		30.0 m	CABLE-D 37SUB/B/B/3000/KONFEK/S	2902075	1
		35.0 m	CABLE-D 37SUB/B/B/3500/KONFEK/S	2902076	1
		40.0 m	CABLE-D 37SUB/B/B/4000/KONFEK/S	2902077	1
		<b>Assembled PVC round cable</b> , with 37-pos. D-SUB socket strip in variable lengths	37	Variable	CABLE D-SUB-B-B-S/37S/C44/... <sup>1</sup>

<sup>1</sup> Please specify the cable length, see ordering example (minimum length: 0.2 m)

<sup>2</sup> Version order number

#### Ordering example:

Shielded 37-pos. PVC round cable, assembled with two 37-pos. D-SUB socket strips, 12.75 m long:

1 pc. 2302421/37S/C44/12,75

### 3.2 Halogen-free system cable

- Assembly: D-SUB socket strip at both ends in accordance with IEC 807-2/DIN 41652 (1:1 connection)
- Cable outlet: straight
- Metal-plated housings
- Screw connection: 2 UNC 4-40 screws
- Variable cable length is defined by means of an order key



Description	Number of positions	Cable length	Type	Order No.	Pcs./Pkt.
<b>Assembled halogen-free round cable</b> , with 37-pos. D-SUB socket strips in fixed lengths	37	1.0 m	CABLE-D37SUB/B/B/HF/S/ 1,0M	2908516	1
		2.0 m	CABLE-D37SUB/B/B/HF/S/ 2,0M	2908517	1
		3.0 m	CABLE-D37SUB/B/B/HF/S/ 3,0M	2908518	1
		4.0 m	CABLE-D37SUB/B/B/HF/S/ 4,0M	2908519	1
		6.0 m	CABLE-D37SUB/B/B/HF/S/ 6,0M	2908520	1
		8.0 m	CABLE-D37SUB/B/B/HF/S/ 8,0M	2908521	1
		10.0 m	CABLE-D37SUB/B/B/HF/S/10,0M	2908522	1
		15.0 m	CABLE-D37SUB/B/B/HF/S/15,0M	2908523	1
		20.0 m	CABLE-D37SUB/B/B/HF/S/20,0M	2908525	1
		25.0 m	CABLE-D37SUB/B/B/HF/S/25,0M	2908526	1
		30.0 m	CABLE-D37SUB/B/B/HF/S/30,0M	2908527	1
		35.0 m	CABLE-D37SUB/B/B/HF/S/35,0M	2908528	1
		40.0 m	CABLE-D37SUB/B/B/HF/S/40,0M	2908529	1
<b>Assembled halogen-free round cable</b> , with 37-pos. D-SUB socket strip in variable lengths	37	Variable	CABLE-D37SUB-B-B-HF-S/... <sup>1</sup>	1075563 <sup>2</sup>	1

<sup>1</sup> Please specify the cable length, see ordering example (minimum length: 0.2 m)

<sup>2</sup> Version order number

#### Ordering example:

Shielded halogen-free 37-pos. round cable, assembled with two 37-pos. D-SUB socket strips, 14.50 m long:

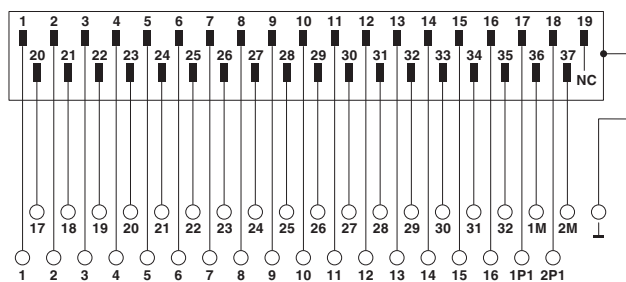
1 pc. 1075563/14,50

## 4 Modules

- 37-pos. D-SUB male strip in accordance with IEC 807-2/DIN 41652
- Screw connection: 2 UNC 4-40 threads
- Marking specific to SIMATIC® ET 200SP HA
- Screw or Push-in connection technology



Description	Number of positions	Module width	Type	Order No.	Pcs./Pkt.
<b>VARIOFACE termination board</b> with D-SUB male strip and system-specific marking					
Screw connection	37	101 mm	VIP-2/SC/D37SUB/M/ET200SP-HA	1100967	1
Push-in connection	37	102.8 mm	VIP-2/PT/D37SUB/M/ET200SP-HA	1100964	1



### Explanation:

- D-SUB male strip
- Terminal connection