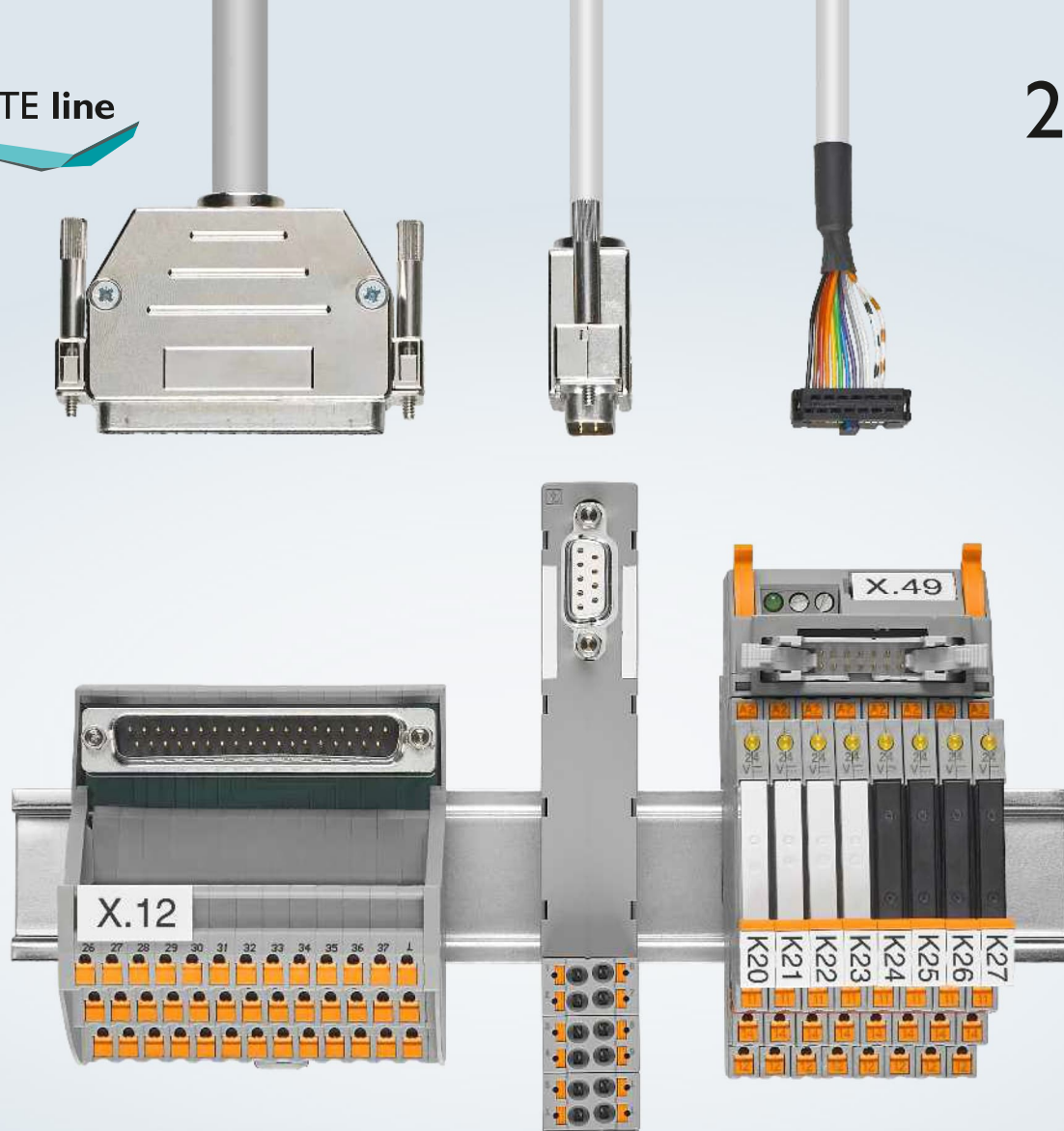


COMPLETE line

2023



System cabling for controllers

Fast, safe, and error-free wiring of signals

System cables – assembled cables for quick plug-in connections

2

System cables with D-SUB or IDC/FLK connectors provide a quick and error-free connection between the automation device and termination board. Choose from a wide range of preassembled system cables in various numbers of positions. They can be connected using pin strips or female strips – optionally via single-core wires (free cable end with ferrules).



Your advantages

- ✓ Outstanding service: standard lengths from 0.5 to 10 m as well as custom lengths
- ✓ High current carrying capacity due to the large conductor cross-section of each single-core wire
- ✓ Flexible due to free cable end with single-core wire marking
- ✓ PVC for standard applications, alternatively halogen-free versions for increased fire protection requirements

IDC/FLK connectors

Preassembled system cables in various numbers of positions up to 1 A per conductor.

More information starting on page 24

			VARIOFACE system cable with IDC/FLK connector	VARIOFACE system cable with D-SUB connector
Conductor cross-section			0.14 mm ²	0.25 mm ²
Max. current per conductor			1 A	2 A
PVC cable	Unshielded	Connector at both ends	Number of positions: 10, 14, 16, 20, 26, 34, 40, 50	
		Connector at one end; free cable end at the other end	Number of positions: 10, 14, 16, 20, 50	
	Shielded	Connector at both ends	Number of positions: 14, 16, 40, 50	Number of positions: 9, 15, 25, 37, 50
		Connector at one end; free cable end at the other end		Number of positions: 9, 15, 25, 37, 50
Halogen-free cable	Unshielded	Connector at both ends	Number of positions: 14, 50	
	Shielded	Connector at both ends		Number of positions: 9, 15, 25, 37, 50



D-SUB connectors

Preassembled system cables in various numbers of positions up to 2 A per conductor.

More information starting on page 24

System cables

High flexibility and tailored lengths

VARIOFACE system cables with D-SUB or IDC/FLK connectors are available in various standard and freely configurable lengths. They can be connected using pin strips or female strips, or optionally via single-core wires with clear color coding and numbering.

Custom or standard cable lengths

Standard lengths:
1.0 m, 2.0 m, etc.

Custom lengths: choose
from 0.2 m to 100.0 m

D-SUB connectors

Versions:

- Female strip to pin strip
- Female strip to female strip
- Pin strip to pin strip

Number of positions: 9, 15, 25, 37, 50



D-SUB connectors

Conductor cross-section
per wire: 0.25 mm²
Current carrying
capacity per wire: 2 A



IDC/FLK connectors

Versions:

- Female strip to female strip

Number of positions: 10, 14, 16, 20, 26, 34, 40, 50



IDC/FLK connectors

Conductor cross-section
per wire: 0.14 mm²
Current carrying
capacity per wire: 1 A



D-SUB connectors

Versions:

- Female strip to free cable end
- Pin strip to free cable end

Number of positions: 9, 15, 25, 37, 50



IDC/FLK connectors

Versions:

- Female strip to free cable end

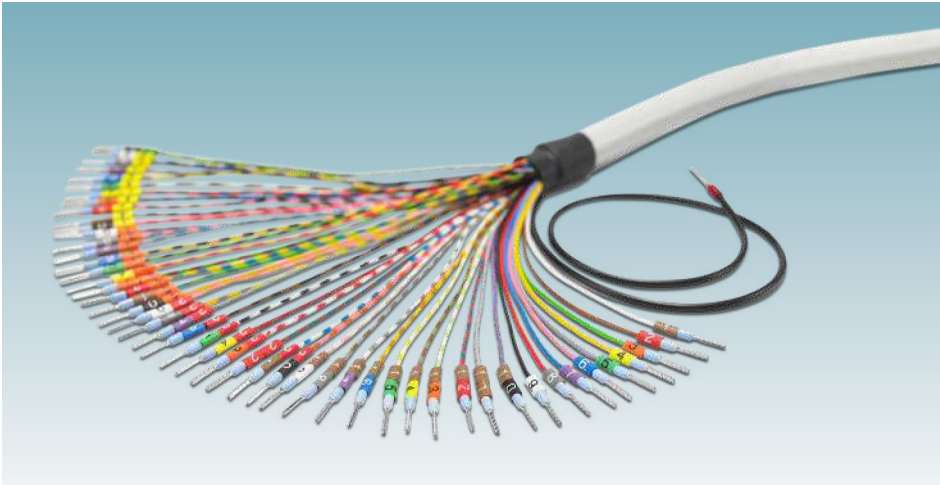
Number of positions: 10, 14, 16, 20, 50



Flexible due to free cable end with single-core wire marking

Clear assignment

Universal system cables with direct wire assignment, thanks to clear color coding and numbering.



Single-core wires with color coding system

Color coding system for single-core wires in detail

Clear color assignment of units and tens with the simple color coding system featuring numbering.

Connectors			
	IDC/FLK	D-SUB	
	1	9-pos.	
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
1	0	10-pos.	
1	1	14-pos.	
1	2		
1	3		
1	4		
1	5		
1	6	16-pos.	
1	7	20-pos.	
1	8		
1	9		
2	0		
2	1	25-pos.	
2	2		
2	3		
2	4		
2	5		

Connectors			
	IDC/FLK	D-SUB	
2	6	37-pos.	
2	7		
2	8		
2	9		
3	0		
3	1		
3	2		
3	3		
3	4		
3	5		
3	6		
3	7		
3	8		
3	9		
4	0		
4	1		
4	2	50-pos.	
4	3		
4	4		
4	5		
4	6		
4	7		
4	8		
4	9		
5	0		
		50-pos.	

Selection of system cables

System cables with IDC/FLK female strip										
	Unshielded, free end at one end									
										
	CABLE-FLK*/OE/*/*									
Cable length	10-pos.	14-pos.	16-pos.	20-pos.	50-pos.					
0.5 m	2904073	2305761	2318127	2305826	2305871					
1 m		2305253	2318130	2305305	2305350					
1.5 m	2904075	2305266	2318143	2305318	2305363					
2 m	2904076	2305279	2318156	2305321	2305376					
2.5 m	2904077	2305282		2305334	2305389					
3 m	2904078	2305295	2318172	2305347	2305392					
4 m		2305774	2318185	2305839	2305884					
6 m	2904080	2305787	2318198	2305842	2305897					
8 m		2305790	2318208	2305855	2305907					
10 m		2305800	2318211	2305868	2305910					
Variable	2904331	2305732	2318224	2305745	2305758					
	Unshielded, female strip at both ends									
										
	FLK*/EZ-DR/*KONFEK									
Cable length	10-pos.	14-pos.	16-pos.	20-pos.	26-pos.	34-pos.	40-pos.	50-pos.		
0.5 m	2299204	2288901	2299291	2296391	2299385	2299479	2288985	2289065		
1 m	2299217	2288914	2299301	2296401	2299398	2299482	2288998	2289078		
1.5 m	2299220	2288927	2299314	2296472	2299408	2299495	2289007	2289081		
2 m	2299233	2288930	2299327	2296485	2299411	2299505	2289010	2289094		
2.5 m		2288943					2289023	2289104		
3 m	2299246	2288956	2299330	2296498	2299424	2299518	2289036	2289117		
3.5 m		2288969					2289049	2289120		
4 m	2299259	2288972	2299343	2296508	2299437	2299521	2289052	2289133		
6 m	2299262	2290863	2299356	2296511	2299440	2299534	2299589	2289609		
8 m	2299275	2299563	2299369	2296524	2299453	2299547	2299592	2289641		
10 m		2299576	2299372	2296537	2299466	2299550	2299602	2289683		
Variable	2295059									

Selection of system cables

System cables with IDC/FLK female strip				
	Shielded, female strip at both ends		Halogen-free, unshielded, female strip at both ends	
				
	FLK*/EZ-DR/*/KONFEK/S		FLK*/EZ-DR/HF/*/KONFEK	CABLE-FLK*/*/HF/*
Cable length	14-pos.	50-pos.	14-pos.	50-pos.
0.5 m	2296977	2299097	2305952	2314134
1 m	2296980	2299107	2305965	2314147
1.5 m	2296993	2299110	2305978	2314150
2 m	2297002	2299123	2305981	2314163
2.5 m			2305994	2314176
3 m	2299013	2299136	2304759	2314189
4 m	2299026	2299149	2304762	2314192
6 m	2299039	2299152	2306003	
8 m	2299042			
10 m	2299055	2299178		2314244
Variable	2295046		2314040	2314257

Selection of system cables

System cables with D-SUB female strip and pin strip					
	Female strip at one end and pin strip at the other end				
					
	CABLE-D*SUB/B/S*/KONFEK/S				
Cable length	9-pos.	15-pos.	25-pos.	37-pos.	50-pos.
0.5 m	2299987	2302052	2302120	2302191	2302269
1 m	2299990	2302065	2302133	2302201	2302272
1.5 m	2300009	2302078	2302146	2302214	2302285
2 m	2302010	2302081	2302159	2302227	2302298
3 m	2302023	2302094	2302162	2302230	2302308
4 m	2302036	2302104	2302175	2302243	2302311
6 m	2302049	2302117	2302188	2302256	2302324
Variable	2302340				
	Female strip at both ends				
					
	CABLE-D*SUB/B/B*/KONFEK/S				
Cable length	9-pos.	15-pos.	25-pos.	37-pos.	50-pos.
1 m	2305415	2305444	2305473	2305509	2305541
2 m	2305428	2305457	2305486	2305512	2305554
3 m	2305431	2305460	2305499	2305525	2305567
4 m				2900759	
6 m				2900760	
8 m				2900761	
10 m				2900762	
15 m				2900763	
20 m				2900764	
Variable	2302421				
	Pin strip at both ends				
					
	CABLE-D*SUB/S/S*/KONFEK/S				
Cable length	9-pos.	15-pos.	25-pos.	37-pos.	50-pos.
1 m	2305570	2305606	2305635	2305664	2305693
2 m	2305583	2305619	2305648	2305677	2305703
3 m	2305596	2305622	2305651	2305680	2305716
Variable	2302434				

Selection of system cables

System cables with D-SUB female strip and pin strip					
	Female strip at one end and pin strip at the other end, halogen-free				
					
	CABLE-D*SUB/B/S/HF/S/*				
Cable length	9-pos.	15-pos.	25-pos.	37-pos.	50-pos.
1 m	1066591	1066600	1066665	1066608	1066678
2 m	1066592	1066602	1066666	1066609	1066679
3 m	1066593	1066603	1066667	1066611	1066681
Variable	1075568	1075565	1075559	1075562	1075554
	Female strip at both ends, halogen-free				
					
	CABLE-D*SUB/B/B/HF/S/*				
Cable length	9-pos.	15-pos.	25-pos.	37-pos.	50-pos.
1 m	1066587	1066597	1066657	2908516	1066672
2 m	1066588	1066598	1066660	2908517	1066673
3 m	1066589	1066599	1066664	2908518	1066674
Variable	1075569	1075566	1075560	1075563	1075557
	Pin strip at both ends, halogen-free				
					
	CABLE-D*SUB/S/S/HF/S/*				
Cable length	9-pos.	15-pos.	25-pos.	37-pos.	50-pos.
1 m	1066594	1066604	1066668	1066612	1066682
2 m	1066595	1066606	1066669	1066614	1066683
3 m	1066596	1066607	1066671	1066615	1066684
Variable	1075567	1075564	1075558	1075561	1075553

Selection of system cables

System cables with D-SUB female strip and pin strip					
	Female strip at one end and free end at the other end				
					
	CABLE-D-*SUB/F/OE/*S/*				
Cable length	9-pos.	15-pos.	25-pos.	37-pos.	50-pos.
0.5 m	2926014	2926085	2926153	2926221	2926292
1 m	2926027	2926098	2926166	2926234	2926302
1.5 m	2926030	2926108	2926179	2926247	2926315
2 m	2926043	2926111	2926182	2926250	2926328
3 m	2926056	2926124	2926195	2926263	2926331
4 m	2926069	2926137	2926205	2926276	2926344
6 m	2926072	2926140	2926218	2926289	2926357
Variable	2900903	2900905	2900906	2900907	2900908
	Pin strip at one end and free end at the other end				
					
	CABLE-D-*SUB/M/OE/*S/*				
Cable length	9-pos.	15-pos.	25-pos.	37-pos.	50-pos.
0.5 m	2926360	2926438	2926506	2926577	2926645
1 m	2926373	2926441	2926519	2926580	2926658
1.5 m	2926386	2926454	2926522	2926593	2926661
2 m	2926399	2926467	2926535	2926603	2926674
3 m	2926409	2926470	2926548	2926616	2926687
4 m	2926412	2926483	2926551	2926629	2926690
6 m	2926425	2926496	2926564	2926632	2926700
Variable	2900909	2900910	2900911	2900912	2900913

Controller-specific system cabling

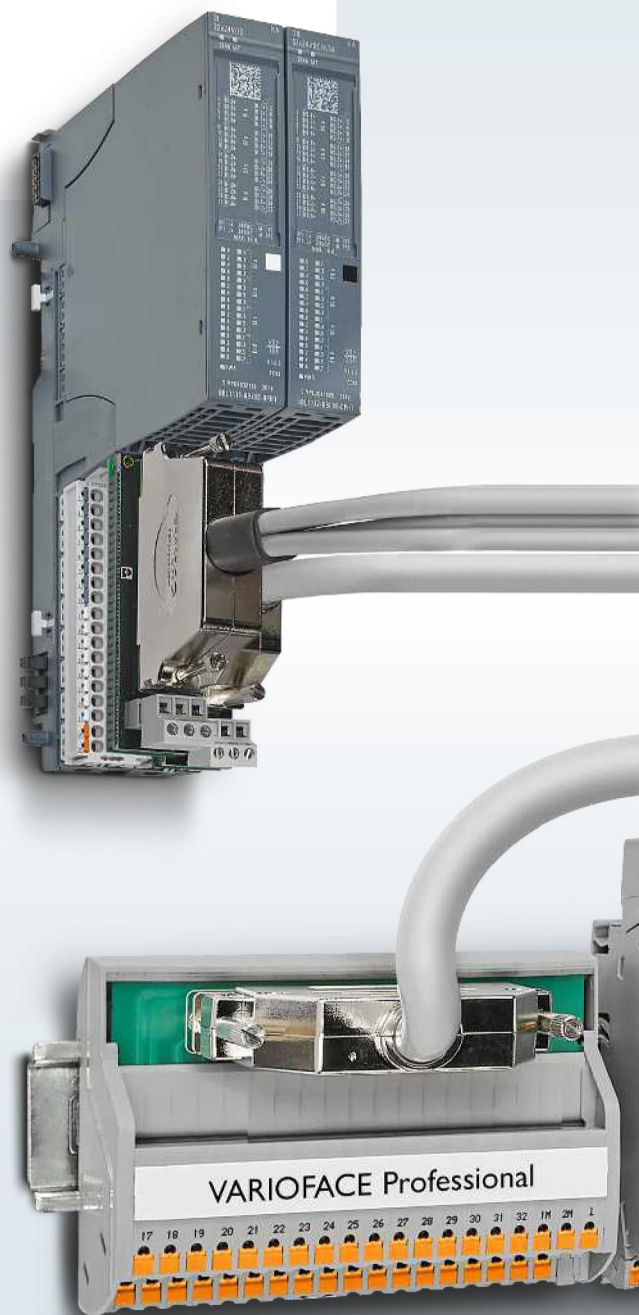
Front adapter instead of single-core wiring

The front adapter marshals the signals, thus eliminating the need for complex single-core wiring. Simply plug the adapter into the correct input/output card of the controller. Preassembled system cables in all lengths and VARIOFACE termination boards complement the system.

Tailored front adapters

The front adapter features a high-position connector for transmitting signals. System cables and termination boards complement the VARIOFACE system concept here.

More information starting on page 34



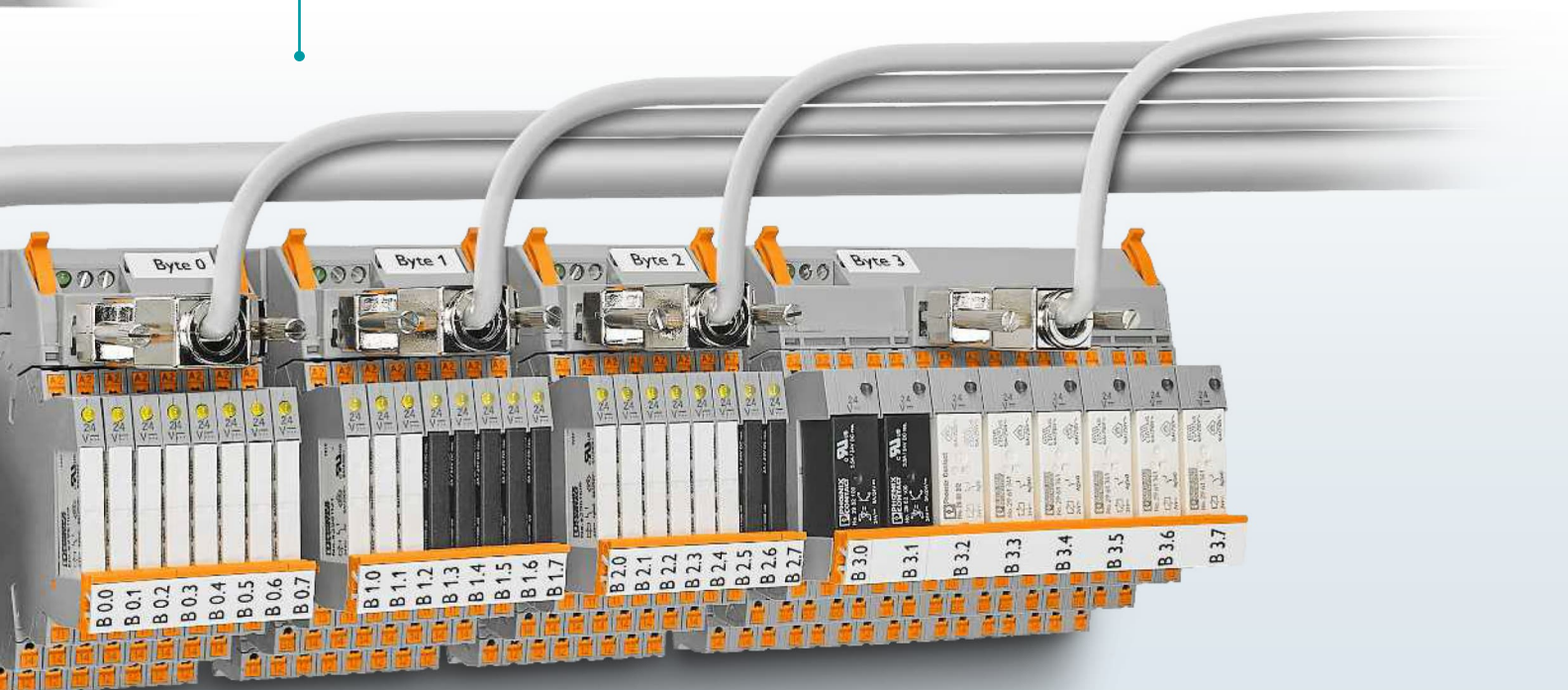
Your advantages

- ✓ Clear overview and time savings with the plug-and-play concept
- ✓ Error-free wiring, with pretested system cables
- ✓ High connection flexibility via front adapter, directly to the connector or free cable end

Interface level

The signals are transmitted from the controller to the modules via preassembled system cables. Different versions are available depending on length, number of positions, and shielding. The termination boards transmit the control and field signals. You also benefit from our varied product range in this case.

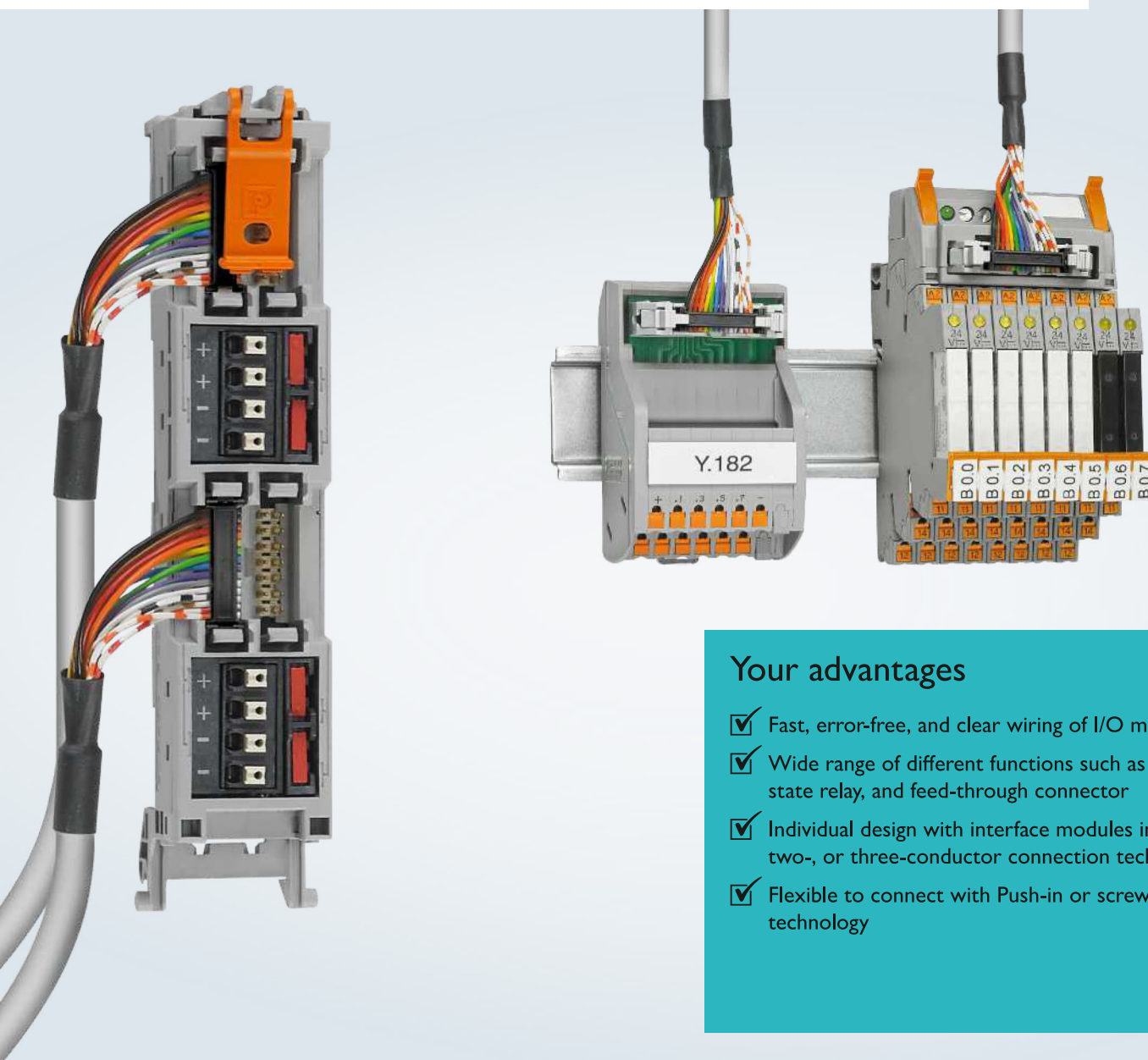
More information starting on page 34



Controller-specific system cabling

Tailored for your I/O card

Our controller-specific system cabling was specially developed to allow quick, error-free connection to the I/O modules of a wide range of controllers. The easy to plug-in front adapters, system cables, and termination boards provide time savings of up to 90% compared to conventional wiring with single-core cables. VARIOFACE system cabling is available for all common I/O systems.



Your advantages

- ✓ Fast, error-free, and clear wiring of I/O modules
- ✓ Wide range of different functions such as relay, solid-state relay, and feed-through connector
- ✓ Individual design with interface modules in single-, two-, or three-conductor connection technology
- ✓ Flexible to connect with Push-in or screw connection technology

Controller-specific system cabling

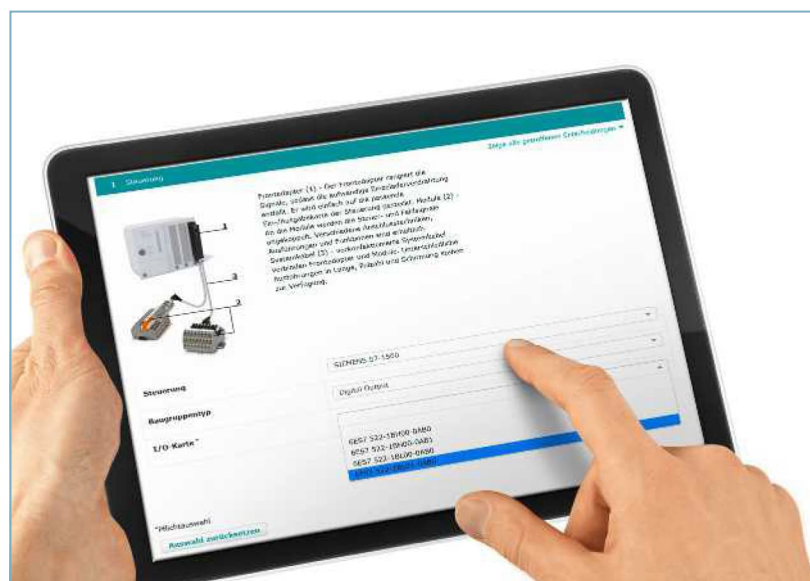
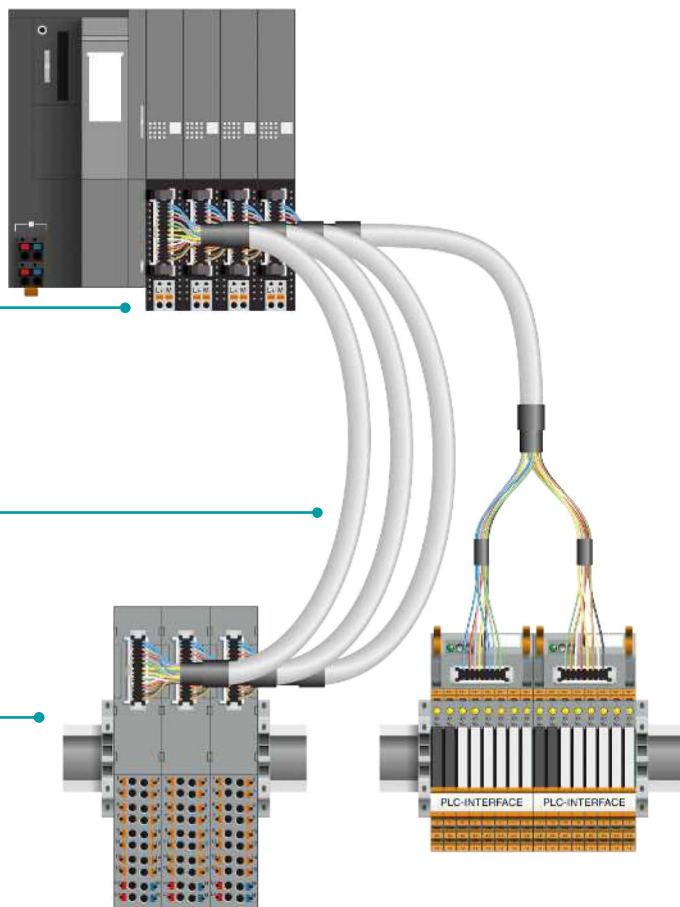
The time-saving plug-and-play concept between control level and field level

The VARIOFACE system cabling is a harmonized cabling concept consisting of the components front adapter, system cable, and termination board.

VARIOFACE front adapters are simply plugged into the respective I/O module.

VARIOFACE system cables in all lengths connect the front adapters to the termination boards.

VARIOFACE termination boards and PLC-V8 adapters for relays form the interface to the field-compatible single-core wire connection.



Configure products easily

The following overview pages enable you to quickly select the tailored system cabling components for your specific automation system.

For further solutions, simply use the configurator on our homepage.

i Web code: #0007

VARIOFACE system cabling for ABB S800 I/O

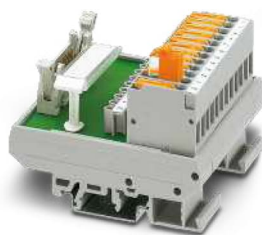
ABB S800 I/O modules		System cables	Termination boards with screw (SC)
i Web code: #0007		Connection of I/O modules in row A: 1 x system cable, 2 x termination board or 2 x V8 adapter	
Digital input modules DI 16X24VDC DI810 DI830 DI840 DI 32X24VDC DI818	A B		
Digital output modules DO 16X24VDC DO810 DO840 DO 32X24VDC DO818	A B	A CABLE-D25SUB/B/2X14/.../TU812 1.0 m 2304649 2.0 m 2304652 3.0 m 2304665 5.0 m 2304678 Variable lengths 2304681/... Two system cables are required for 32-channel I/O modules with TU819.	Termination boards for 8 DI or 8 DO: VIP-2/PT/FLK14/PLC 2903801 (PT) VIP-2/SC/FLK14/PLC 2315214 (SC) 2-conductor connection for 8 DI: VIP-2/PT/FLK14/8P/PLC 2904284 (PT) VIP-2/SC/FLK14/8P/PLC 2322294 (SC) 2-conductor connection for 8 DO: VIP-2/PT/FLK14/8M/PLC 2904283 (PT) VIP-2/SC/FLK14/8M/PLC 2322281 (SC) 3-conductor connection for 8 DI or 8 DO: VIP-3/PT/FLK14/8IM/PLC 2904282 (PT) VIP-3/SC/FLK14/8IM/PLC 2322278 (SC) Four termination boards are required for 32-channel I/O modules with TU819.
Analog input modules AI810 AI820 AI830 AI835 AI845	B	Connection of I/O modules in row B: 1 x system cable, 1 x termination board	
Analog output modules AO810 AO820 AO845	B		
The system cables are plugged directly into the Compact Module Termination Unit (MTU) TU812 (16 channels) or TU819 (32 channels) of the S800 I/O system.		B CABLE-D25SUB/B/S/.../KONFEK/S 0.5 m 2302120 1.0 m 2302133 2.0 m 2302159 3.0 m 2302162 4.0 m 2302175 Variable lengths 2302340/25S/C36/... Two system cables are required for 32-channel I/O modules with TU819.	1:1 termination board for digital and analog I/O modules VIP-3/PT/D25SUB/F 2903782 (PT) VIP-3/SC/D25SUB/F 2315188 (SC) Two termination boards are required for 32-channel I/O modules with TU819.

or Push-in (PT) connections and V8 adapters for relays



Termination boards with 3-conductor connection technology for 8 DI or 8 DO
VFC-PT/FLK14/PLC [1278798](#) (PT)

Four termination boards are required for 32-channel I/O modules with TU819.



Termination board with knife-disconnect terminal blocks for 8 DI or 8 DO
FLKM 14/KDS3-MT/PPA/PLC [2290423](#) (SC)

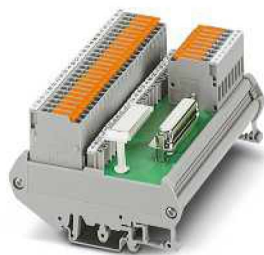
Four termination boards are required for 32-channel I/O modules with TU819.



V8 adapters for PLC-INTERFACE
V8 adapter for 8 DO, 6.2 mm relay [2295554](#)
PLC-V8/FLK14/OUT
V8 adapter for 8 DO, 14 mm relay [2299660](#)
PLC-V8L/FLK14/OUT
V8 adapter for 8 DI, 6.2 mm relay [2296553](#)
PLC-V8/FLK14/IN

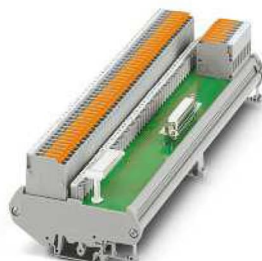
For selection of relays, see page 20/21

Four V8 adapters are required for 32-channel I/O modules with TU819.



Termination board for analog I/O modules with knife-disconnect terminal blocks and separate positive terminals
FLKM-D25 SUB/B/KDS3-MT/TU810/P [2304539](#) (SC)

Termination board for analog I/O modules with knife-disconnect terminal blocks and separate negative terminals
FLKM-D25 SUB/B/KDS3-MT/TU810 [2304513](#) (SC)



Termination board for analog I/O modules with knife-disconnect terminal blocks and separate positive and negative terminals
FLKM-D25 SUB/B/KDS3-MT/TU830 [2304526](#) (SC)

VARIOFACE system cabling for Allen Bradley ControlLogix 1756 I/O

Allen Bradley I/O modules		Front adapters		System cables	
 Web code: #0007					
Digital input modules DI 16X24VDC 1756-IB16D 1756-IB16I 1756-IH16I Only with termination board 2904286 and 2322317 in row A	A1 C	A	Connection of I/O modules in row A: 1 x front adapter, 1 x system cable, 1 x termination board		
					
					
		A1:FLKM 50-PA-AB/1756/EXTC 2302735 A2:FLKM 50-PA-AB/1756/IN/EXTC 2302748		FLK 50/EZ-DR/...KONFEK 0.5 m 2289065 1.0 m 2289078 1.5 m 2289081 2.0 m 2289094 3.0 m 2289117 4.0 m 2289133 6.0 m 2289609 8.0 m 2289641 10.0 m 2289683 Variable lengths 2295059/50U/C38/...	
Digital input modules DI 32X24VDC 1756-IB32	A2 C				
Digital output modules DQ 16X24VDC 1756-OB16E	B C	B	Connection of I/O modules in row B: 1 x front adapter, 2 x system cable, 2 x termination board		
					
					
			FLKM 14-PA-AB/1756/EXTC 2302861		
Digital output modules DQ 32X24VDC 1756-OB32	A1 C		FLK 14/EZ-DR/...KONFEK 0.5 m 2288901 1.0 m 2288914 1.5 m 2288927 2.0 m 2288930 3.0 m 2288956 4.0 m 2288972 6.0 m 2290863 8.0 m 2299563 10.0 m 2299576 Variable lengths 2295059/14U/C23/...		
Analog input modules 1756-IF8 1756-IF16 1756-IF8H Only with termination board 2904286 and 2322317 in row A	A1 C				
Analog input modules 1756-IA8D 1756-IF6I 1756-IR6I 1756-IT6I 1756-IF6CIS	B C	C	Universal front adapters with free cable end (AWG 18, 0.75 mm²)		
					
			Universal front adapters (max. 250 V AC/DC, 3 A) for 20-pos. ControlLogix I/O modules		
			VIP-PA-PWR/20XOE/ .../1756 1.0 m 2908863 2.0 m 2908864 4.0 m 2908865 6.0 m 2908866		
Analog output modules 1756-OF4 1756-OF6CI 1756-OF6VI 1756-OF8 1756-OF8H	B C		1756-IA16 1756-IB16 1756-OA16 1756-OA8 1756-OB16E 1756-OB8 1756-OF4 1756-OF8 1756-CFM 1756-IA8D 1756-IC16 1756-IG16 1756-IN16 1756-IV16 1756-OA8D 1756-OA8E 1756-OC8 1756-OF8H 1756-OG16 1756-ON8 1756-OV16E 1756-PLS		

Termination boards with screw (SC) or Push-in (PT) connections and PLC-V8 adapters for relays

			
Termination boards for 32 DI or 32 DO: VIP-2/PT/FLK50/PLC 2903803 (PT) VIP-2/SC/FLK50/PLC 2315227 (SC) Termination boards with ControlLogix-specific marking: VIP-2/PT/FLK50/AB-1756 2904286 (PT) VIP-2/SC/FLK50/AB-1756 2322317 (SC)	Term. board for 32 DO, separate "-" terminals for each channel FLKM 50/32M/PLC 2289719 (SC) Term. board for 32 DI, separate "+" terminals for each channel FLKM 50/32P/PLC 2291121 (SC) Term. board for 32 DO or 32 DI, separate "+" and "-" terminals for each channel FLKM 50/32IM/PLC 2284523 (SC) Term. board for 32 DO or 32 DI with knife-disconn. terminal FLKM 50/KDS3-MT/PPA/PLC 2290614 (SC)	V8 adapters for PLC-INTERFACE 8 DO, 6.2 mm relay PLC-V8/FLK14/OUT 2295554 8 DO, 14 mm relay PLC-V8L/FLK14/OUT 2299660 8 DI, 6.2 mm relay PLC-V8/FLK14/IN 2296553	Matching cables for V8 adapters FLK 50/4X14/EZ-DR/.../KONFEK 1.0 m 2296692 2.0 m 2296715 3.0 m 2296728 4.0 m 2296731 6.0 m 2296744 10.0 m 2296773 Variable lengths 2302405/...

or 2 x PLC-V8 adapter

			
Termination boards with ControlLogix-specific marking VIP-2/PT/2FLK14/AB-1756 2904288 (PT) VIP-2/SC/2FLK14/AB-1756 2322333 (SC)	Termination boards (8 DO) for 1756-OB16E: VIP-2/PT/FLK14/PLC 2903801 (PT) VIP-2/SC/FLK14/PLC 2315214 (SC) 2-conductor connection VIP-2/PT/FLK14/8M/PLC 2904283 (PT) VIP-2/SC/FLK14/8M/PLC 2322281 (SC) 3-conductor connection: VIP-3/PT/FLK14/8IM/PLC 2904282 (PT) VIP-3/SC/FLK14/8IM/PLC 2322278 (SC) 3-conductor connection, narrow design VFC-PT/FLK14/PLC 1278798 (PT)	V8 adapters for PLC-INTERFACE V8 adapter for 8 DO, 6.2 mm relay PLC-V8/FLK14/OUT 2295554 V8 adapter for 8 DO, 14 mm relay PLC-V8L/FLK14/OUT 2299660 For selection of relays, see page 20/21	



Universal front adapters (max. 250 V AC/DC, 3 A) for 36-pos. ControlLogix I/O modules

VIP-PA-PWR/36XOE/.../1756	1756-IB16D	1756-IA32	1756-LSC8XIB8I
1.0 m 2908859	1756-IB16I	1756-IB16IF	1756-IV32
2.0 m 2908860	1756-IB32	1756-IB16ISOE	1756-OA16I
4.0 m 2908861	1756-IF16	1756-IF16H	1756-OB16IEF
6.0 m 2908862	1756-IF8	1756-IF4FXOF2F	1756-OB16IEFS
	1756-IF8I	1756-IF8H	1756-OB16IS
	1756-IRT8I	1756-IF8IH	1756-OB8EI
	1756-OB16D	1756-IH16I	1756-OF8I
	1756-OB16I	1756-IH16ISOE	1756-OF8IH
	1756-OB32	1756-IM16I	1756-OH8I
	1756-HSC	1756-IR12	1756-OV32E
	1756-IA16I	1756-IT16	1756-OW16I
			1756-OX8I

VARIOFACE system cabling for Honeywell C300

Honeywell C300 I/O modules		Front adapters	System cables	
 Web code: #0007		Connection of I/O modules in row A: 1 (2) x front adapter, 1 (2) x system cable,		
Digital input modules DI 16X24VDC TDIL01 (non-redundant) TDIL11 (redundant)	A1 A2 B			
Digital input modules DI 32X24VDC TDIL51 (non-redundant) TDIL61 (redundant)	A1 B			
Digital output modules DO16X24VDC TDOB01 (non-redundant) TDOB11 (redundant)	A1 A2 B			
Digital output modules DO32X24VDC TDOD51 (non-redundant) TDOD61 (redundant)	A1 B			
		Front adapters for C300 I/O (1 x for 16 channels, 2 x for 32 channels) A1: For DI/DO/AO FLKM-PA-D37/HW/DIO/C300 2901423 A2: For DI/DO (TDIL01, TDOB01) with separate +/- connection FLKM-PA-D37/HW/C300 2322029 A3: For AI/AO FLKM-PA-D37/HW/AN/C300 2900622 A4: For AI (TAID01, TAID11) and TB1/TB2 connection FLKM-PA-D37/HW/AN/C300/ TAID/P 1081063	PVC CABLE-D37SUB/B/B/... 1.0 m 2305509 2.0 m 2305512 3.0 m 2305525 4.0 m 2900759 6.0 m 2900760 8.0 m 2900761 10.0 m 2900762 Variable lengths 2302421/37S/C44/...	Halogen-free CABLE-D37SUB/B/B/HF/S/...M 1.0 m 2908516 2.0 m 2908517 3.0 m 2908518 4.0 m 2908519 6.0 m 2908520 8.0 m 2908521 10.0 m 2908522 Variable lengths 1075563/...
		Connection of I/O modules in row B: 1 (2) x front adapter, 1 (2) x system cable, 2 (4) x V8 adapter		
Analog input modules TAIX01 (non-redundant) TAIX11 (redundant) TAIX51 (non-redundant) TAIX61 (redundant) TAIN01 (non-redundant) TAIN11 (redundant)	A3			
Analog input modules TAID01 (non-redundant) TAID11 (redundant)	A3 A4			
Analog output modules TAOX51 (non-redundant) TAOX61 (redundant) TAON01 (non-redundant) TAON11 (redundant)	A1			
Analog output modules TAOX01 (non-redundant) TAOX11 (redundant)	A3			
		Front adapters for C300 I/O (1 x for 16 channels, 2 x for 32 channels) For DO: FLKM-PA-2D15/HW/DO/C300 2900924 For DI: FLKM-PA-2D15/HW/DI/C300 2901879	PVC CABLE-D15SUB/B/B/...KONFEK/S 1.0 m 2305444 2.0 m 2305457 3.0 m 2305460 Variable lengths 2302421/15S/C29/...	Halogen-free CABLE-D15SUB/B/B/HF/S/...M 1.0 m 1066657 2.0 m 1066660 3.0 m 1066664 Variable lengths 1075560/...

Termination boards with screw (SC) or Push-in (PT) connections and PLC-V8 adapters for relays

1 (2) x termination board



1:1 termination board with 2 levels, marking 1 ... 37
VIP-2/PT/D37SUB/M 2904277 (PT)
VIP-2/SC/D37SUB/M 2900676 (SC)



Termination board with 2 levels, marking 1+, 2-, 3+, 4-, ..., 31+, 32-
VIP-2/PT/D37SUB/M/SO 2904278 (PT)
VIP-2/SC/D37SUB/M/SO 2900786 (SC)



Termination board with 3 levels, marking adapted to TAOX01, TAOX11
VIP-3/PT/D37SUB/M/HW/C300 2904276 (PT)
VIP-3/SC/D37SUB/M/HW/C300 2900675 (SC)

for relay



V8 adapters for PLC-INTERFACE
V8 adapter for 8 DO, 6.2 mm relay 2296058
PLC-V8/D15S/OUT
V8 adapter for 8 DI, 6.2 mm relay 2296074
PLC-V8/D15S/IN

For selection of relays, see page 20/21



V8 adapters for PLC-INTERFACE
V8 adapter for 8 DO, 14 mm relay 1104789
PLC-V8L/D15S/OUT

For selection of relays, see page 20/21

VARIOFACE system cabling for Phoenix Contact Axioline F

	Axioline F I/O modules	System cables
A	Connection of I/O modules in row A: 1 x system cable, 1 x termination board	
		
	AXL F DO16 FLK 1H 2701813	FLK 20/EZ-DR/ 50KONFEK 2296391 FLK 20/EZ-DR/ 100KONFEK 2296401 FLK 20/EZ-DR/ 150KONFEK 2296472 FLK 20/EZ-DR/ 200KONFEK 2296485 FLK 20/EZ-DR/ 300KONFEK 2296498 FLK 20/EZ-DR/ 400KONFEK 2296508 FLK 20/EZ-DR/ 600KONFEK 2296511 FLK 20/EZ-DR/ 800KONFEK 2296524 FLK 20/EZ-DR/1000KONFEK 2296537 Variable lengths 2295059/20U/C61/...
B	Connection of I/O modules in row B: 1 x system cable, 2 x termination board or 2 x PLC-V8 adapter	
		
	AXL F DO16 FLK 1H 2701813	FLK 20/2FLK14/EZ-DR/.../KONFEK 0.5 m 2305059 1.0 m 2298470 2.0 m 2298438 3.0 m 2300818 4.0 m 2305237 5.0 m 2902707 10.0 m 2902708 Variable lengths 2304487/...
C	Connection of I/O modules in row C: 2 (4) x system cable, 2 (4) x termination board or 2 (4) x PLC-V8 adapter	
		
	AXL F DI16/1 1H AXL F DI16/1 HS 1H AXL F DI32/1 1F AXL F DI32/1 2H AXL F DI32/1 XC 1F AXL F DI64/1 2F AXL F DO16/1 1H AXL F DO32/1 1F AXL F DO32/1 2H AXL F DO32/1 XC 1F	System cables for 8 DI or 8 DO: CABLE-FLK14/AXIO/OE/0,14/... 0.5 m 1369888 1.0 m 1369897 1.5 m 1369902 2.0 m 1369904 3.0 m 1369905 4.0 m 1369906 6.0 m 1369909

Termination boards with screw (SC) or Push-in (PT) connections		PLC-V8 adapters for relays
 Web code: #0007		
 Termination board with 20 connection terminal blocks (1 - 20): VIP-2/PT/FLK20 2903790 (PT) VIP-2/SC/FLK20 2315049 (SC)	 Termination board with 20 connection terminal blocks (1 - 20): VFC-PT/FLK20 1278794 (PT) Termination board with Siemens SIMATIC® ET 200SP-specific marking VFC-PT/FLK20/ET200SP 1278788 (PT)	
 Termination boards for 8 DI or 8 DO: VIP-2/PT/FLK14/PLC 2903801 (PT) VIP-2/SC/FLK14/PLC 2315214 (SC) 2-conductor connection for 8 DI: VIP-2/PT/FLK14/8P/PLC 2904284 (PT) VIP-2/SC/FLK14/8P/PLC 2322294 (SC) 2-conductor connection for 8 DO: VIP-2/PT/FLK14/8M/PLC 2904283 (PT) VIP-2/SC/FLK14/8M/PLC 2322281 (SC) 3-conductor connection for 8 DI or 8 DO: VIP-3/PT/FLK14/8IM/PLC 2904282 (PT) VIP-3/SC/FLK14/8IM/PLC 2322278 (SC)	 Termination boards with 3-conductor connection technology for 8 DI or 8 DO VFC-PT/FLK14/PLC 1278798 (PT)	 V8 adapters for PLC-INTERFACE V8 adapter for 8 DO, 6.2 mm relay 2295554 PLC-V8/FLK14/OUT V8 adapter for 8 DO, 14 mm relay 2299660 PLC-V8L/FLK14/OUT V8 adapter for 8 DI, 6.2 mm relay 2296553 PLC-V8/FLK14/IN For selection of relays, see page 20 / 21
 Termination boards for 8 DI or 8 DO: VIP-2/PT/FLK14/PLC 2903801 (PT) VIP-2/SC/FLK14/PLC 2315214 (SC) 2-conductor connection for 8 DI: VIP-2/PT/FLK14/8P/PLC 2904284 (PT) VIP-2/SC/FLK14/8P/PLC 2322294 (SC) 2-conductor connection for 8 DO: VIP-2/PT/FLK14/8M/PLC 2904283 (PT) VIP-2/SC/FLK14/8M/PLC 2322281 (SC) 3-conductor connection for 8 DI or 8 DO: VIP-3/PT/FLK14/8IM/PLC 2904282 (PT) VIP-3/SC/FLK14/8IM/PLC 2322278 (SC)	 Termination boards with 3-conductor connection technology for 8 DI or 8 DO VFC-PT/FLK14/PLC 1278798 (PT)	 V8 adapters for PLC-INTERFACE V8 adapter for 8 DO, 6.2 mm relay 2295554 PLC-V8/FLK14/OUT V8 adapter for 8 DO, 14 mm relay 2299660 PLC-V8L/FLK14/OUT V8 adapter for 8 DI, 6.2 mm relay 2296553 PLC-V8/FLK14/IN For selection of relays, see page 20 / 21

VARIOFACE system cabling for Phoenix Contact Axioline Smart Elements

Axioline Smart Elements I/O modules			System cables	
A	Connection of I/O modules in row A: 2 x system cable, 2 x termination board or 2 x PLC-V8 adapter			
				
	AXL SE DI16/1 AXL SE DO16/1	1088127 1088129	System cables for 8 DI or 8 DO: CABLE-FLK14/AXIO/OE/0,14/... 0.5 m 1.0 m 1.5 m 2.0 m 3.0 m 4.0 m 6.0 m	1369888 1369897 1369902 1369904 1369905 1369906 1369909
B	Connection of I/O modules in row B: 2 x system cable, 2 x termination board or 2 x PLC-V8 adapter			
				
	AXL SE DI16/1 NPN AXL SE DO16/1 NPN	1105559 1105560	System cables for 8 DI or 8 DO: CABLE-FLK14/AXIO/OE/0,14/... 0.5 m 1.0 m 1.5 m 2.0 m 3.0 m 4.0 m 6.0 m	1369888 1369897 1369902 1369904 1369905 1369906 1369909

Termination boards with screw (SC) or Push-in (PT) connections

PLC-V8 adapters for relays

 Web code: #0007
**Termination boards for 8 DI or 8 DO:**VIP-2/PT/FLK14/PLC [2903801](#) (PT)VIP-2/SC/FLK14/PLC [2315214](#) (SC)**2-conductor connection for 8 DI:**VIP-2/PT/FLK14/8P/PLC [2904284](#) (PT)VIP-2/SC/FLK14/8P/PLC [2322294](#) (SC)**2-conductor connection for 8 DO:**VIP-2/PT/FLK14/8M/PLC [2904283](#) (PT)VIP-2/SC/FLK14/8M/PLC [2322281](#) (SC)**3-conductor connection for 8 DI or 8 DO:**VIP-3/PT/FLK14/8IM/PLC [2904282](#) (PT)VIP-3/SC/FLK14/8IM/PLC [2322278](#) (SC)**Termination boards with 3-conductor connection technology for 8 DI or 8 DO**VFC-PT/FLK14/PLC [1278798](#) (PT)**V8 adapters for PLC-INTERFACE****V8 adapter for 8 DO, 6.2 mm relay**PLC-V8/FLK14/OUT [2295554](#)**V8 adapter for 8 DO, 14 mm relay**PLC-V8L/FLK14/OUT [2299660](#)**V8 adapter for 8 DI, 6.2 mm relay**PLC-V8/FLK14/IN [2296553](#)

For selection of relays, see page 20/21

**Termination boards for 8 DI or 8 DO:**VIP-2/PT/FLK14/PLC [2903801](#) (PT)VIP-2/SC/FLK14/PLC [2315214](#) (SC)**2-conductor connection for 8 DI:**VIP-2/PT/FLK14/8P/PLC [2904284](#) (PT)VIP-2/SC/FLK14/8P/PLC [2322294](#) (SC)**2-conductor connection for 8 DO:**VIP-2/PT/FLK14/8M/PLC [2904283](#) (PT)VIP-2/SC/FLK14/8M/PLC [2322281](#) (SC)**3-conductor connection for 8 DI or 8 DO:**VIP-3/PT/FLK14/8IM/PLC [2904282](#) (PT)VIP-3/SC/FLK14/8IM/PLC [2322278](#) (SC)**Termination boards with 3-conductor connection technology for 8 DI or 8 DO**VFC-PT/FLK14/PLC [1278798](#) (PT)**Adapter for 8 DO, 6.2 mm relay**PLC-V8/FLK14/OUT/M [2304102](#)**Adapter for 8 DO, 14 mm relay**PLC-V8L/FLK14/OUT/M [2304306](#)**Adapter for 8 DI, 6.2 mm relay**PLC-V8/FLK14/IN/M [2304115](#)

For selection of relays, see page 20/21

VARIOFACE system cabling for Schneider Electric Modicon X80 I/O for M340

Modicon X80 I/O		Front adapters	System cables
i Web code: #0007		Connection of I/O modules in row A: 1 x front adapter, 2 x system cable, 2 x termination board	
Digital input modules DI 16X24VDC BMXDDI1602	A	 FLKM 14-PA-MODI/M340 2903208	 FLK 14/EZ-DR/...KONFEK 0.5 m 2288901 1.0 m 2288914 1.5 m 2288927 2.0 m 2288930 3.0 m 2288956 4.0 m 2288972 6.0 m 2290863 8.0 m 2299563 10.0 m 2299576 Variable lengths 2295059/14U/C23/...
	B C		
Digital input modules DI 32X24VDC BMXDDI3202K		Connection of I/O modules in row B: 1 (2) x system cable, 1 (2) x termination board  System cables for 32 channels CABLE-FCN40/1X50/.../M340 0.5 m 2321635 1.0 m 2321648 2.0 m 2321651 3.0 m 2321664 4.0 m 2321677 6.0 m 2321680 8.0 m 2321693 10.0 m 2321703	
Digital input modules DI 64X24VDC BMXDDI6402K	B C		
Digital output modules DQ 16X24VDC BMXDDO1602 BMXDDO1612 (negative logic)	A	B Note: A front adapter is not required for these I/O modules.	
Digital output modules DQ 32X24VDC BMXDDO3202K	B C		
Digital output modules DQ 64X24VDC BMXDDO6402K		Connection of I/O modules in row C: 1 (2) x system cable, 4 (8) x termination board  System cables for 32 channels CABLE-FCN40/4X14/.../M340 0.5 m 2321716 1.0 m 2321729 2.0 m 2321732 3.0 m 2321745 4.0 m 2321758 6.0 m 2321761 8.0 m 2321774 10.0 m 2321787	
Digital output modules DQ 64X24VDC BMXDDO6402K	B C		
Digital input/output modules DI 16/DQ16X24VDC BMXDDM3202K	B C	C Note: A front adapter is not required for these I/O modules.	

Termination boards with screw (SC) or Push-in (PT) connections and V8 adapters for relays

or 2 x PLC-V8 adapter for relay



Termination boards for 8 DI or 8 DO:

VIP-2/PT/FLK14/PLC 2903801 (PT)
VIP-2/SC/FLK14/PLC 2315214 (SC)

2-conductor connection for 8 DI:

VIP-2/PT/FLK14/8P/PLC 2904284 (PT)
VIP-2/SC/FLK14/8P/PLC 2322294 (SC)

2-conductor connection for 8 DO:

VIP-2/PT/FLK14/8M/PLC 2904283 (PT)
VIP-2/SC/FLK14/8M/PLC 2322281 (SC)

3-conductor connection for 8 DI or 8 DO:

VIP-3/PT/FLK14/8IM/PLC 2904282 (PT)
VIP-3/SC/FLK14/8IM/PLC 2322278 (SC)



Termination boards with 3-conductor connection technology for 8 DI or 8 DO

VFC-PT/FLK14/PLC 1278798 (PT)



V8 adapters for PLC-INTERFACE

V8 adapter for 8 DO, 6.2 mm relay

PLC-V8/FLK14/OUT 2295554

V8 adapter for 8 DO, 14 mm relay

PLC-V8L/FLK14/OUT 2299660

V8 adapter for 8 DI, 6.2 mm relay

PLC-V8/FLK14/IN 2296553

For BMXDDO1612 (negative logic):

V8 adapter for 8 DO, 6.2 mm relay

PLC-V8/FLK14/OUT/M 2304102

V8 adapter for 8 DO, 14 mm relay

PLC-V8L/FLK14/OUT/M 2304306

For selection of relays, see page 20/21



Termination boards for 32 DI or 32 DO:

VIP-2/PT/FLK50/PLC 2903803 (PT)
VIP-2/SC/FLK50/PLC 2315227 (SC)



Termination board for 32 DO, separate negative terminals for each channel

FLKM 50/32M/PLC 2289719 (SC)

Termination board for 32 DI, separate positive terminals for each channel

FLKM 50/32P/PLC 2291121 (SC)

Termination board for 32 DO or 32 DI, separate positive and negative terminals for each channel

FLKM 50/32IM/PLC 2284523 (SC)

Termination board for 32 DO or 32 DI with knife-disconnect terminal blocks

FLKM 50/KDS3-MT/PPA/PLC 2290614 (SC)



Relay module for 32 DO, 1 N/O contact

UMK-32 RM/MR-G24/1/PLC 2979472 (SC)

or 4 (8) x PLC-V8 adapter for relay



Termination boards for 8 DI or 8 DO:

VIP-2/PT/FLK14/PLC 2903801 (PT)
VIP-2/SC/FLK14/PLC 2315214 (SC)

2-conductor connection for 8 DI:

VIP-2/PT/FLK14/8P/PLC 2904284 (PT)
VIP-2/SC/FLK14/8P/PLC 2322294 (SC)

2-conductor connection for 8 DO:

VIP-2/PT/FLK14/8M/PLC 2904283 (PT)
VIP-2/SC/FLK14/8M/PLC 2322281 (SC)

3-conductor connection for 8 DI or 8 DO:

VIP-3/PT/FLK14/8IM/PLC 2904282 (PT)
VIP-3/SC/FLK14/8IM/PLC 2322278 (SC)



Termination boards with 3-conductor connection technology for 8 DI or 8 DO

VFC-PT/FLK14/PLC 1278798 (PT)



V8 adapters for PLC-INTERFACE

V8 adapter for 8 DO, 6.2 mm relay

PLC-V8/FLK14/OUT 2295554

V8 adapter for 8 DO, 14 mm relay

PLC-V8L/FLK14/OUT 2299660

V8 adapter for 8 DI, 6.2 mm relay

PLC-V8/FLK14/IN 2296553

For selection of relays, see page 20/21

VARIOFACE system cabling for Siemens SIMATIC ET 200SP

Siemens I/O modules		Front adapters	System cables
i Web code: #0007		Connection of I/O modules in row A: 1 x front adapter, 1 x system cable, 1 x termination board	
Digital input modules DI 16X24VDC 6ES7131-6BH01-0BA0 6ES7131-6BH01-2BA0	A B		
Digital input modules DI 8X24VDC 6ES7131-6BF01-0BA0 6ES7131-6BF01-2BA0 6ES7131-6BF01-0AA0 6ES7131-6BF01-2AA0 6ES7131-6BF60-0AA0 6ES7131-6BF00-0CA0 6ES7131-6BF00-0DA0	C	FLKM 20-PA-ET200SP 1099751	FLK 20/EZ-DR/...KONFEK 0.5 m 2296391 1.0 m 2296401 1.5 m 2296472 2.0 m 2296485 3.0 m 2296498 4.0 m 2296508 6.0 m 2296511 8.0 m 2296524 10.0 m 2296537 Variable lengths 2295059/20U/C61/...
Digital output modules DQ 16X24VDC 6ES7132-6BH01-0BA0 6ES7132-6BH01-2BA0		Connection of I/O modules in row B: 1 x front adapter, 1 x system cable, 2 x termination board	
Digital output modules DQ 8X24VDC 6ES7132-6BF01-0BA0 6ES7132-6BF01-2BA0 6ES7132-6BF01-0AA0 6ES7132-6BF01-2AA0 6ES7132-6BF61-0AA0 6ES7132-6BF01-0CA0	A B C		
Analog input modules 6ES7134-6GD01-0BA1 6ES7134-6GD01-2BA1 6ES7134-6HD01-0BA1 6ES7134-6HD01-2BA1 6ES7134-6TD00-0CA1 6ES7134-6JD00-0CA1 6ES7134-6JD00-2CA1 6ES7134-6FF00-0AA1 6ES7134-6GF00-0AA1 6ES7134-6JF00-0CA1 6ES7134-6JF00-2CA1 6ES7134-6FB00-0BA1 6ES7134-6GB00-0BA1 6ES7134-6HB00-0CA1 6ES7134-6HB00-0DA1	A	FLKM 20-PA-ET200SP 1099751	FLK 20/2FLK14/EZ-DR/.../KONFEK 0.5 m 2305059 1.0 m 2298470 2.0 m 2298438 3.0 m 2300818 4.0 m 2305237 5.0 m 2902707 10.0 m 2902708 Variable lengths 2304487/...
Analog input modules 6ES7135-6FB00-0BA1 6ES7135-6GB00-0BA1 6ES7135-6HB00-0CA1 6ES7135-6HB00-0DA1 6ES7135-6HD00-0BA1		Connection of I/O modules in row C: 1 x front adapter, 1 x system cable, 1 x termination board	
Analog input modules 6ES7135-6FB00-0BA1 6ES7135-6GB00-0BA1 6ES7135-6HB00-0CA1 6ES7135-6HB00-0DA1 6ES7135-6HD00-0BA1	A		
		FLKM 14-PA-ET200SP 1166173	FLK 14/EZ-DR/...KONFEK 0.5 m 2288901 1.0 m 2288914 1.5 m 2288927 2.0 m 2288930 3.0 m 2288956 4.0 m 2288972 6.0 m 2290863 8.0 m 2299563 10.0 m 2299576 Variable lengths 2295059/14U/C23/...

Termination boards with screw (SC) or Push-in (PT) connections		V8 adapters for relays
		
Termination board with 20 connection terminal blocks (1 - 20): VIP-2/PT/FLK20 2903790 (PT) VIP-2/SC/FLK20 2315049 (SC)	Termination board with 20 connection terminal blocks (1 - 20): VFC-PT/FLK20 1278794 (PT) Termination board with Siemens SIMATIC ET 200SP-specific marking VFC-PT/FLK20/ET200SP 1278788 (PT)	
or 2 x PLC-V8 adapter		
		
Termination boards for 8 DI or 8 DO: VIP-2/PT/FLK14/PLC 2903801 (PT) VIP-2/SC/FLK14/PLC 2315214 (SC) 2-conductor connection for 8 DI: VIP-2/PT/FLK14/8P/PLC 2904284 (PT) VIP-2/SC/FLK14/8P/PLC 2322294 (SC) 2-conductor connection for 8 DO: VIP-2/PT/FLK14/8M/PLC 2904283 (PT) VIP-2/SC/FLK14/8M/PLC 2322281 (SC) 3-conductor connection for 8 DI or 8 DO: VIP-3/PT/FLK14/8IM/PLC 2904282 (PT) VIP-3/SC/FLK14/8IM/PLC 2322278 (SC)	Termination boards with 3-conductor connection technology for 8 DI or 8 DO VFC-PT/FLK14/PLC 1278798 (PT)	V8 adapters for PLC-INTERFACE V8 adapter for 8 DO, 6.2 mm relay 2295554 PLC-V8/FLK14/OUT V8 adapter for 8 DO, 14 mm relay 2299660 PLC-V8L/FLK14/OUT V8 adapter for 8 DI, 6.2 mm relay 2296553 PLC-V8/FLK14/IN For selection of relays, see page 20/21
or 1 x V8 adapter		
		
Termination boards for 8 DI or 8 DO: VIP-2/PT/FLK14/PLC 2903801 (PT) VIP-2/SC/FLK14/PLC 2315214 (SC) 2-conductor connection for 8 DI: VIP-2/PT/FLK14/8P/PLC 2904284 (PT) VIP-2/SC/FLK14/8P/PLC 2322294 (SC) 2-conductor connection for 8 DO: VIP-2/PT/FLK14/8M/PLC 2904283 (PT) VIP-2/SC/FLK14/8M/PLC 2322281 (SC) 3-conductor connection for 8 DI or 8 DO: VIP-3/PT/FLK14/8IM/PLC 2904282 (PT) VIP-3/SC/FLK14/8IM/PLC 2322278 (SC)	Termination boards with 3-conductor connection technology for 8 DI or 8 DO VFC-PT/FLK14/PLC 1278798 (PT)	V8 adapters for PLC-INTERFACE V8 adapter for 8 DO, 6.2 mm relay 2295554 PLC-V8/FLK14/OUT V8 adapter for 8 DO, 14 mm relay 2299660 PLC-V8L/FLK14/OUT V8 adapter for 8 DI, 6.2 mm relay 2296553 PLC-V8/FLK14/IN For selection of relays, see page 20/21

VARIOFACE system cabling for Siemens SIMATIC ET 200SP HA

Siemens I/O modules		Front adapters	System cables		
 Web code: #0007					
Digital input modules DI 16X24VDC 6DL1131-6BH00-0PH1 DI 16X24VDC HA	A B	A	Connection of I/O modules in row A: 1 x front adapter, 1 x system cable, 1 x termination board		
Digital input modules DI 16XNAMUR HA 6DL1131-6TH00-0PH1	A				
Digital input modules DI 32X24VDC HA 6DL1131-6BL00-0PH1	A B C				
Digital output modules DQ 16X24VDC/0,5A HA 6DL1132-6BH00-0PH1	A B	B	Connection of I/O modules in row B: 1 x front adapter, 1 x system cable, 2 (4) x termination board		
Digital output modules DQ 32X24VDC/0,5A HA 6DL1132-6BL00-0PH1	A B C				
Analog HART input modules AI 16XI 2-Wire HART HA 6DL1134-6TH00-0PH1	A				
Analog input modules AI 16XTC/8XRTD 2-/3-/4-Wire HA 6DL1134-6JH00-0PH1	A	C	Connection of I/O modules in row C: 1 x front adapter, 1 x system cable, 1 x termination board		
Analog output modules AQ 8XI HART HA 6DL1135-6TF00-0PH1	A				
Input/output modules AI-DI16/DQ16X24VDC HART 6DL1133-6EW00-0PH1	A				

Termination boards with screw (SC) or Push-in (PT) connections and PLC-V8 adapters for relays



1:1 termination board with screw connections
VIP-2/SC/D37SUB/M/ET200SP-HA 1100967 (SC)



1:1 termination board with Push-in connections
VIP-2/PT/D37SUB/M/ET200SP-HA 1100964 (PT)



Termination board for 16 channels with knife-disconnect terminal blocks
FLKM-D37SUB/M/MT/16M/ETHA 1274077 (SC)
Termination board for 16 channels, separate negative terminals for each channel, with knife-disconnect terminal blocks
FLKM-D37SUB/M/MT/16IM/ETHA 1274083 (SC)
Termination board for 8 AO with knife-disconnect terminal blocks
FLKM-D37SUB/M/MT/8AO/ETHA 1274065 (SC)

or 2 (4) x PLC-V8 adapter



V8 adapters for PLC-INTERFACE
V8 adapter for 8 DO, 6.2 mm relay
PLC-V8/D15S/OUT 2296058
V8 adapter for 8 DI, 6.2 mm relay
PLC-V8/D15S/IN 2296074

For selection of relays, see page 20/21



V8 adapters for PLC-INTERFACE
V8 adapter for 8 DO, 14 mm relay
PLC-V8L/D15S/OUT 1104789
For selection of relays, see page 20/21



Termination boards for 32 DI or 32 DO:
VIP-2/PT/FLK50/PLC 2903803 (PT)
VIP-2/SC/FLK50/PLC 2315227 (SC)



Termination board for 32 DO, separate negative terminals for each channel
FLKM 50/32M/PLC 2289719 (SC)
Termination board for 32 DI, separate positive terminals for each channel
FLKM 50/32P/PLC 2291121 (SC)
Termination board for 32 DO or 32 DI, separate positive and negative terminals for each channel
FLKM 50/32IM/PLC 2284523 (SC)
Termination board for 32 DO or 32 DI with knife-disconnect terminal blocks
FLKM 50/KDS3-MT/PPA/PLC 2290614 (SC)



Relay module for 32 DO, 1 N/O contact
UMK-32 RM/MR-G24/1/PLC 2979472 (SC)

VARIOFACE system cabling for Siemens S7-1500 IO (25 mm)

Siemens I/O modules		Front adapters	System cables
 Web code: #0007		Connection of I/O modules in row A: 1 x front adapter, 1 x system cable, 1 x termination board	
Digital input modules DI 16X24VDC 6ES7521-1BH10-0AA0	C	 FLKM 50-PA/25/S7-1500 1089346	 FLK 50/EZ-DR/...KONFEK 0.5 m 2289065 1.0 m 2289078 1.5 m 2289081 2.0 m 2289094 3.0 m 2289117 4.0 m 2289133 6.0 m 2289609 8.0 m 2289641 10.0 m 2289683 Variable lengths 2295059/50U/C38/...
Digital input modules DI 32X24VDC 6ES7521-1BL10-0AA0	A B	 FLKM 50-PA/25/S7-1500 1089346	 FLK 50/4X14/EZ-DR/ .../KONFEK 0.5 m 2296689 1.0 m 2296692 1.5 m 2296702 2.0 m 2296715 3.0 m 2296728 4.0 m 2296731 6.0 m 2296744 8.0 m 2296757 10.0 m 2296773 Variable lengths 2302405/...
Digital output modules DQ 16X24VDC 6ES7522-1BH10-0AA0	C	 FLKM 2X14-PA/25/S7-1500 1089345	 FLK 14/EZ-DR/...KONFEK 0.5 m 2288901 1.0 m 2288914 1.5 m 2288927 2.0 m 2288930 3.0 m 2288956 4.0 m 2288972 6.0 m 2290863 8.0 m 2299563 10.0 m 2299576 Variable lengths 2295059/14U/C23/...
Digital output modules DQ 32X24VDC 6ES7522-1BL10-0AA0	A B	 FLKM 2X14-PA/25/S7-1500 1089345	 FLK 14/EZ-DR/...KONFEK 0.5 m 2288901 1.0 m 2288914 1.5 m 2288927 2.0 m 2288930 3.0 m 2288956 4.0 m 2288972 6.0 m 2290863 8.0 m 2299563 10.0 m 2299576 Variable lengths 2295059/14U/C23/...
Digital input and output modules DI 16X24VDC/ DQ 16X24VDC 6ES7523-1BL00-0AA0	A B	 FLKM 2X14-PA/25/S7-1500 1089345	 FLK 14/EZ-DR/...KONFEK 0.5 m 2288901 1.0 m 2288914 1.5 m 2288927 2.0 m 2288930 3.0 m 2288956 4.0 m 2288972 6.0 m 2290863 8.0 m 2299563 10.0 m 2299576 Variable lengths 2295059/14U/C23/...

Termination boards with screw (SC) or Push-in (PT) connections and PLC-V8 adapters for relays



Termination boards for 32 DI or 32 DO:

VIP-2/PT/FLK50/PLC
VIP-2/SC/FLK50/PLC

2903803 (PT)
2315227 (SC)



Termination board for 32 DO, separate negative terminals for each channel

FLKM 50/32M/PLC 2289719 (SC)

Termination board for 32 DI, separate positive terminals for each channel

FLKM 50/32P/PLC 2291121 (SC)

Termination board for 32 DO or 32 DI, separate positive and negative terminals for each channel

FLKM 50/32IM/PLC 2284523 (SC)

Termination board for 32 DO or 32 DI with knife-disconnect terminal blocks

FLKM 50/KDS3-MT/PPA/PLC 2290614 (SC)



Relay module for 32 DO, 1 N/O contact

UMK-32 RM/MR-G24/1/PLC 2979472 (SC)

or 4 x PLC-V8 adapter



Termination boards for 8 DI or 8 DO:

VIP-2/PT/FLK14/PLC 2903801 (PT)
VIP-2/SC/FLK14/PLC 2315214 (SC)

2-conductor connection for 8 DI:

VIP-2/PT/FLK14/8P/PLC 2904284 (PT)
VIP-2/SC/FLK14/8P/PLC 2322294 (SC)

2-conductor connection for 8 DO:

VIP-2/PT/FLK14/8M/PLC 2904283 (PT)
VIP-2/SC/FLK14/8M/PLC 2322281 (SC)

3-conductor connection for 8 DI or 8 DO:

VIP-3/PT/FLK14/8IM/PLC 2904282 (PT)
VIP-3/SC/FLK14/8IM/PLC 2322278 (SC)



Termination boards with 3-conductor connection technology for 8 DI or 8 DO

VFC-PT/FLK14/PLC 1278798 (PT)



V8 adapters for PLC-INTERFACE

V8 adapter for 8 DO, 6.2 mm relay PLC-V8/FLK14/OUT 2295554

V8 adapter for 8 DO, 14 mm relay PLC-V8L/FLK14/OUT 2299660

V8 adapter for 8 DI, 6.2 mm relay PLC-V8/FLK14/IN 2296553

For selection of relays, see page 20/21

or 2 x PLC-V8 adapter



Termination boards for 8 DI or 8 DO:

VIP-2/PT/FLK14/PLC 2903801 (PT)
VIP-2/SC/FLK14/PLC 2315214 (SC)

2-conductor connection for 8 DI:

VIP-2/PT/FLK14/8P/PLC 2904284 (PT)
VIP-2/SC/FLK14/8P/PLC 2322294 (SC)

2-conductor connection for 8 DO:

VIP-2/PT/FLK14/8M/PLC 2904283 (PT)
VIP-2/SC/FLK14/8M/PLC 2322281 (SC)

3-conductor connection for 8 DI or 8 DO:

VIP-3/PT/FLK14/8IM/PLC 2904282 (PT)
VIP-3/SC/FLK14/8IM/PLC 2322278 (SC)



Termination boards with 3-conductor connection technology for 8 DI or 8 DO

VFC-PT/FLK14/PLC 1278798 (PT)



V8 adapters for PLC-INTERFACE

V8 adapter for 8 DO, 6.2 mm relay PLC-V8/FLK14/OUT 2295554

V8 adapter for 8 DO, 14 mm relay PLC-V8L/FLK14/OUT 2299660

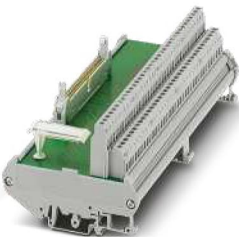
V8 adapter for 8 DI, 6.2 mm relay PLC-V8/FLK14/IN 2296553

For selection of relays, see page 20/21

VARIOFACE system cabling for Siemens SIMATIC S7-1500 IO (35 mm), digital

Siemens I/O modules		Front adapters		System cables	
 Web code: #0007		Connection of I/O modules in row A: 1 x front adapter, 1 x system cable, 1 x termination board			
Digital input modules DI 16X24VDC 6ES7521-1BH00-0AB0 6ES7521-1BH50-0AA0	B	A			
			FLKM 50-PA/PT/DIO/S7-150 FLKM 50-PA/SC/DIO/S7-150	2907384 (PT) 2907383 (SC)	FLK 50/EZ-DR/...KONFEK 0.5 m 1.0 m 1.5 m 2.0 m 3.0 m 4.0 m 6.0 m 8.0 m 10.0 m Variable lengths
Digital input modules DI 32X24VDC 6ES7521-1BL00-0AB0	A B				
Connection of I/O modules in row B: 1 x front adapter, 2 (4) x system cable, 2 (4) x termination board					
Digital output modules DQ 16X24VDC 6ES7522-1BH00-0AB0 6ES7522-1BH01-0AB0	B	B			
			FLKM 4X14-PA/PT/DIO/S7-1500 FLKM 4X14-PA/SC/DIO/S7-1500	2907382 (PT) 2907381 (SC)	FLK 14/EZ-DR/...KONFEK 0.5 m 1.0 m 1.5 m 2.0 m 3.0 m 4.0 m 6.0 m 8.0 m 10.0 m Variable lengths
Digital output modules DQ 32X24VDC 6ES7522-1BL00-0AB0 6ES7522-1BL01-0AB0	A B				

Termination boards with screw (SC) or Push-in (PT) connections and PLC-V8 adapters for relays

		
Termination boards for 32 DI or 32 DO: VIP-2/PT/FLK50/PLC 2903803 (PT) VIP-2/SC/FLK50/PLC 2315227 (SC)	Termination board for 32 DO, separate negative terminals for each channel FLKM 50/32M/PLC 2289719 (SC) Termination board for 32 DI, separate positive terminals for each channel FLKM 50/32P/PLC 2291121 (SC) Termination board for 32 DO or 32 DI, separate positive and negative terminals for each channel FLKM 50/32IM/PLC 2284523 (SC) Termination board for 32 DO or 32 DI with knife-disconnect terminal blocks FLKM 50/KDS3-MT/PPA/PLC 2290614 (SC)	Relay module for 32 DO, 1 N/O contact UMK-32 RM/MR-G24/1/PLC 2979472 (SC)
or 2 (4) x PLC-V8 adapter		
		
Termination boards for 8 DI or 8 DO: VIP-2/PT/FLK14/PLC 2903801 (PT) VIP-2/SC/FLK14/PLC 2315214 (SC) 2-conductor connection for 8 DI: VIP-2/PT/FLK14/8P/PLC 2904284 (PT) VIP-2/SC/FLK14/8P/PLC 2322294 (SC) 2-conductor connection for 8 DO: VIP-2/PT/FLK14/8M/PLC 2904283 (PT) VIP-2/SC/FLK14/8M/PLC 2322281 (SC) 3-conductor connection for 8 DI or 8 DO: VIP-3/PT/FLK14/8IM/PLC 2904282 (PT) VIP-3/SC/FLK14/8IM/PLC 2322278 (SC)	Termination boards with 3-conductor connection technology for 8 DI or 8 DO VFC-PT/FLK14/PLC 1278798 (PT)	V8 adapters for PLC-INTERFACE V8 adapter for 8 DO, 6.2 mm relay PLC-V8/FLK14/OUT 2295554 V8 adapter for 8 DO, 14 mm relay PLC-V8L/FLK14/OUT 2299660 V8 adapter for 8 DI, 6.2 mm relay PLC-V8/FLK14/IN 2296553 For selection of relays, see page 20/21

VARIOFACE system cabling for Siemens SIMATIC S7-1500 IO (35 mm), analog

Siemens I/O modules		Front adapters	System cables
Web code: #0007		Connection of I/O modules in row A: 1 x front adapter, 1 x system cable, 1 x termination board	
Analog input modules 6ES7531-7KF00-0AB0 6ES7531-7MH00-0AB0 6ES7531-7NF00-0AB0 6ES7531-7NF10-0AB0 6ES7531-7PF00-0AB0 6ES7531-7QF00-0AB0 A B		 FLKM 50-PA/AN/S7-1500 2907386	 FLK 50/EZ-DR/...KONFEK 0.5 m 2289065 1.0 m 2289078 1.5 m 2289081 2.0 m 2289094 3.0 m 2289117 4.0 m 2289133 6.0 m 2289609 8.0 m 2289641 10.0 m 2289683 Variable lengths 2295059/50U/C38/...
Analog output modules 6ES7532-5ND00-0AB0 6ES7532-5HF00-0AB0 6ES7532-5HD00-0AB0 A B		 FLKM 4X14-PA/AN/S7-1500 2907385	 FLK 14/EZ-DR/...KONFEK 0.5 m 2288901 1.0 m 2288914 1.5 m 2288927 2.0 m 2288930 3.0 m 2288956 4.0 m 2288972 6.0 m 2290863 8.0 m 2299563 10.0 m 2299576 Variable lengths 2295059/14U/C23/...
		Connection of I/O modules in row B: 1 x front adapter, 2 (4) x system cable, 1 (2) x termination board	

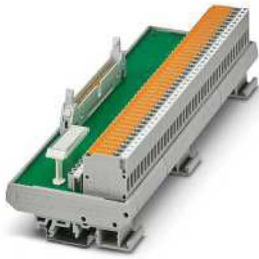
Termination boards with screw (SC) or Push-in (PT) connections



Termination board with S7-1500-specific marking
VIP-3/PT/FLK50/AN/S7-1500 2908496 (PT)
VIP-3/SC/FLK50/AN/S7-1500 2908495 (SC)



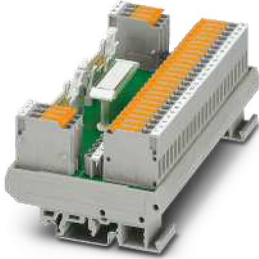
Termination board with S7-1500-specific marking and connections for external power distribution
VIP-3/PT/FLK50/AN/2P/S7-1500 2908499 (PT)
VIP-3/SC/FLK50/AN/2P/S7-1500 2908497 (SC)



Termination boards with S7-1500-specific marking and knife-disconnect terminal blocks
FLKM 50/KDS3-MT/PPA/S7-1500 2909893 (SC)



Termination board with S7-1500-specific marking for signal connections 1 - 16
VIP-3/PT/2FLK14/AN/2P/S7-1500A 2908465 (PT)
VIP-3/SC/2FLK14/AN/2P/S7-1500A 2908464 (SC)
Termination board with S7-1500-specific marking for signal connections 21 - 36
VIP-3/PT/2FLK14/AN/2P/S7-1500B 2908846 (PT)
VIP-3/SC/2FLK14/AN/2P/S7-1500B 2908845 (SC)



Termination boards with S7-1500-specific marking and knife-disconnect terminal blocks
FLKM-2FLK14/KDS3-MT/AN/S7-1500 2909894 (SC)

VARIOFACE system cabling for Yokogawa CS3000 R3

CS3000 I/O modules		System cables		
 Web code: #0007		Connection of I/O modules in row B: 1 (2) x system cable, 1 (2) x termination board		
Digital input modules DI32 ADV151	A C			
Digital input modules DI 64 ADV161	A C			
Digital output modules DO 32 ADV551	A C			
Digital output modules DO 64 ADV561	A C			
Analog input modules AAI 135 AAI 141 AAI 143 AAR 181 AAT 141 AAV 141 AAV 142 AAI 135	B			
Analog output modules AAB 841 AAI 543 AAI 835 AAV 542	B			

System cables	
Connection of I/O modules in row B: 1 (2) x system cable, 1 (2) x termination board	
A PVC for ADV151, ADV551 FLK 50-PA/EZ-DR/KS/.../YUC 2.0 m 2314299 3.0 m 2314309 4.0 m 2314312 6.0 m 2314927 8.0 m 2314930 10.0 m 2314325 15.0 m 2314338 20.0 m 2314503 25.0 m 2314516 30.0 m 2314529	Halogen-free for ADV151, ADV551 FLK 50-PA/EZ-DR/HF/KS/.../YUC 2.0 m 2904740 3.0 m 2904741 4.0 m 2904742 6.0 m 2904743 8.0 m 2904745 10.0 m 2904637 15.0 m 2904638 20.0 m 2904487 25.0 m 2904639 30.0 m 2904640
Connection of I/O modules in row B: 1 x system cable, 1 x termination board	
B PVC FLK 40-PA/EZ-DR/KS/.../YUC 2.0 m 2314341 3.0 m 2314354 4.0 m 2314367 6.0 m 2314943 8.0 m 2314956 10.0 m 2314370 15.0 m 2314383 20.0 m 2314532 25.0 m 2314545 30.0 m 2314558	Halogen-free FLK 40-PA/EZ-DR/HF/KS/.../YUC 2.0 m 2904748 3.0 m 2904749 4.0 m 2904750 6.0 m 2904751 8.0 m 2904753 10.0 m 2904646 15.0 m 2904647 20.0 m 2904488 25.0 m 2904648 30.0 m 2904649
Connection of I/O modules in row C: 1 (2) x system cable, 4 (8) x PLC-V8 adapter for relay	
C PVC for ADV151, ADV 551 CABLE-50/4FLK14/.../YUC: 2.0 m 2314655 3.0 m 2314668 4.0 m 2314671 6.0 m 2318978 10.0 m 2314684 15.0 m 2322773 20.0 m 2314778	PVC for ADV161, ADV561 FLKMIL-50/4FLK14/EZ-DR/.../CS 2.0 m 2306304 3.0 m 2306964 5.0 m 2306977 10.0 m 2306980 15.0 m 2301503 20.0 m 2301914

Termination boards, relay modules with screw (SC) or spring-cage (SP) connections and V8 adapters for relays



Termination board for 32 DO or 32 DI, separate positive and negative terminals for each channel, non-redundant
 FLKMS-KS50/32IM/YCS 2314451 (SC)
Termination board for 32 DO or 32 DI, separate positive and negative terminals for each channel, redundant
 FLKMS-2KS50/32IM/YCS 2901896 (SC)
Termination board for 32 DI, separate positive and negative terminals for each channel, LED, redundant
 UM-2KS50/DI32/CS/SO180 2901013 (SC)
 UM-2KS50/DI32/CS/Z/SO180 2311360 (SP)



Termination board for 32 DO or 32 DI, fuse (5X20) for each channel, redundant
 FLKMS-KS50/SI/YCS 2314464 (SC)
Termination board for 32 DI, fuse (TR5) and isolating plug for each channel, LED, redundant
 FLKMS-2KS50/PMT/ADV151/YCS 2321884 (SC)
 FLKMS-2KS50/PMT/ADV151/Z/YCS 2321923 (SP)



Relay modules for 32 DO, 1 N/O contact:
 UMK-32 RM/MR-G24/1/YCS (250 V AC/3 A) 2969055 (SC)
24 V DC/2 A, fuse and jumper:
 UM-2KS50/32R/SI/J/DO24V/P/YCS 1089344 (SC)
230 V AC/2 A, fuse and jumper:
 UM-KS50/32-MR/21/ADV551/SO207 2311108 (SP)
 UM-KS50/32MR/1/ADV551/SC/SO207 2900899 (SC)
Relay modules for 32 DI, 24 V DC, fuse, jumper:
 UM-KS50/32-MR/21/ADV151/SO207 2311111 (SP)
 UM-KS50/32MR/1/ADV151/SC/SO207 2900898 (SC)
 UM-2KS50/32-MR/21/ADV151/SO179 2310222 (SC)



Termination boards for AI or AO, 1:1 connection, non-redundant
 FLKMS-KS40/YCS 2314642 (SC)
 FLKMS-KS40/YCS/ZFKDS 2314723 (SP)
Termination boards for AI or AO, 1:1 connection, redundant system connector
 FLKMS-2KS40/YCS 2901056 (SC)
 FLKMS-2KS40/YCS/ZFKDS 2314752 (SP)



Termination board for AAI141 AAI143, redundant, HART
 FLKMS-KS40/AI/YCS 2314286 (SC)
Termination board for AAI141 AAI143, fuse (5X20) and LED for each channel, redundant, HART
 FLKMS-KS40/SI/AI16/YCS 2314273 (SC)



V8 adapters for PLC-INTERFACE
Adapter for 8 DO, 6.2 mm relay
 PLC-V8/FLK14/OUT/M 2304102
Adapter for 8 DI, 6.2 mm relay
 PLC-V8/FLK14/IN 2296553

For selection of relays, see page 20/21



V8 adapters for PLC-INTERFACE
Adapter for 8 DO, 14 mm relay
 PLC-V8L/FLK14/OUT/M 2304306

For selection of relays, see page 20/21

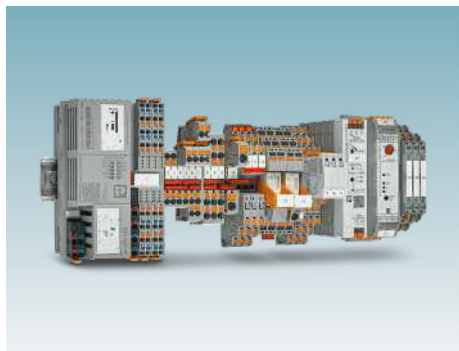
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The COMPLETE line system encompasses technologically leading and coordinated hardware and software products, consulting services, and system solutions that help you optimize your processes in control cabinet building. Engineering, purchasing, installation, and operation become significantly easier for you.



i Web code: #2089

Your advantages in detail:



Comprehensive product portfolio

With COMPLETE line, we offer a complete product portfolio of technologically leading products. This includes:

- Controllers and I/O modules
- Power supplies and device circuit breakers
- Terminal blocks and distribution blocks
- Relay modules and motor starters
- Signal conditioners
- Safety technology
- Surge protection
- Heavy-duty connectors



Intuitive handling

With the simple, intuitive handling of the coordinated hardware components, you will save time during installation, startup, and maintenance. With Push-in connection technology, you can wire applications quickly and without using tools. The broad, technologically leading product portfolio will always provide you with the right product for standard or special applications.



Save time throughout the entire engineering process

The clipx ENGINEER planning and marking software supports the entire process of control cabinet building. The program features an intuitive user interface that enables the individual planning, automatic checking, and direct ordering of terminal strips.



Reduced logistics costs

Reduced variety of parts with standardized marking, bridging, and testing accessories. The COMPLETE line system coordinates products, design, and accessories so that you benefit from maximum reusability and thus reduce your logistics costs.



Optimized processes in control cabinet building

COMPLETE line supports you, from engineering through to manufacturing, in designing your control cabinet production as efficient as possible. This is how your customized concept for optimizing your processes in control cabinet building is created. Our terminal strip production helps you to flexibly manage order peaks or to supply your control cabinet production with fully assembled DIN rails just in time.



The new standard for the control cabinet

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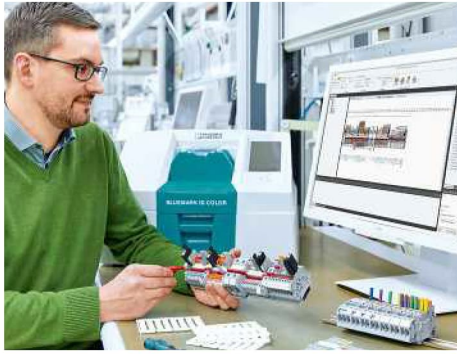
At Phoenix Contact, the focus is always on you, the customer. With over 50 subsidiaries and more than 30 agencies around the world, we are always close by.

As a result, you will receive expert, first-hand advice and benefit from fast and timely delivery of a complete package consisting of high-quality, optimally coordinated components. Our expertise and high level of vertical integration also allow customized solutions tailored to your needs. We also support you after your purchase with our comprehensive after-sales services.

 Web code: #2247



Your advantages in detail:



Fast terminal strip production

Our terminal strip production service provides help in managing order peaks flexibly and allows terminal strips to be delivered just in time for series production. The fully assembled and marked terminal strips, already equipped with accessories, just need to be installed and connected.



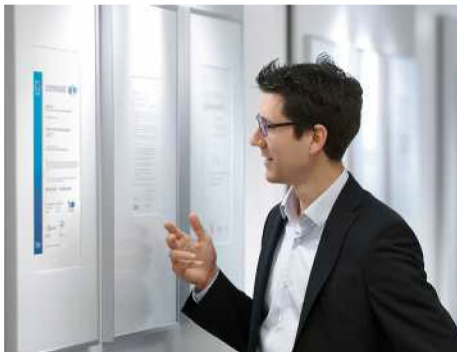
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To reduce the effort of materials and stock management, you can order prepicked material sets under a single item number.



Customer-specific solutions

Can't find what you're looking for in our range? No problem: From minor adaptations to completely new product developments, we focus on your specific requirements.



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From the basics to specialist expertise: we provide you with the skills you need in line with your specific requirements.

