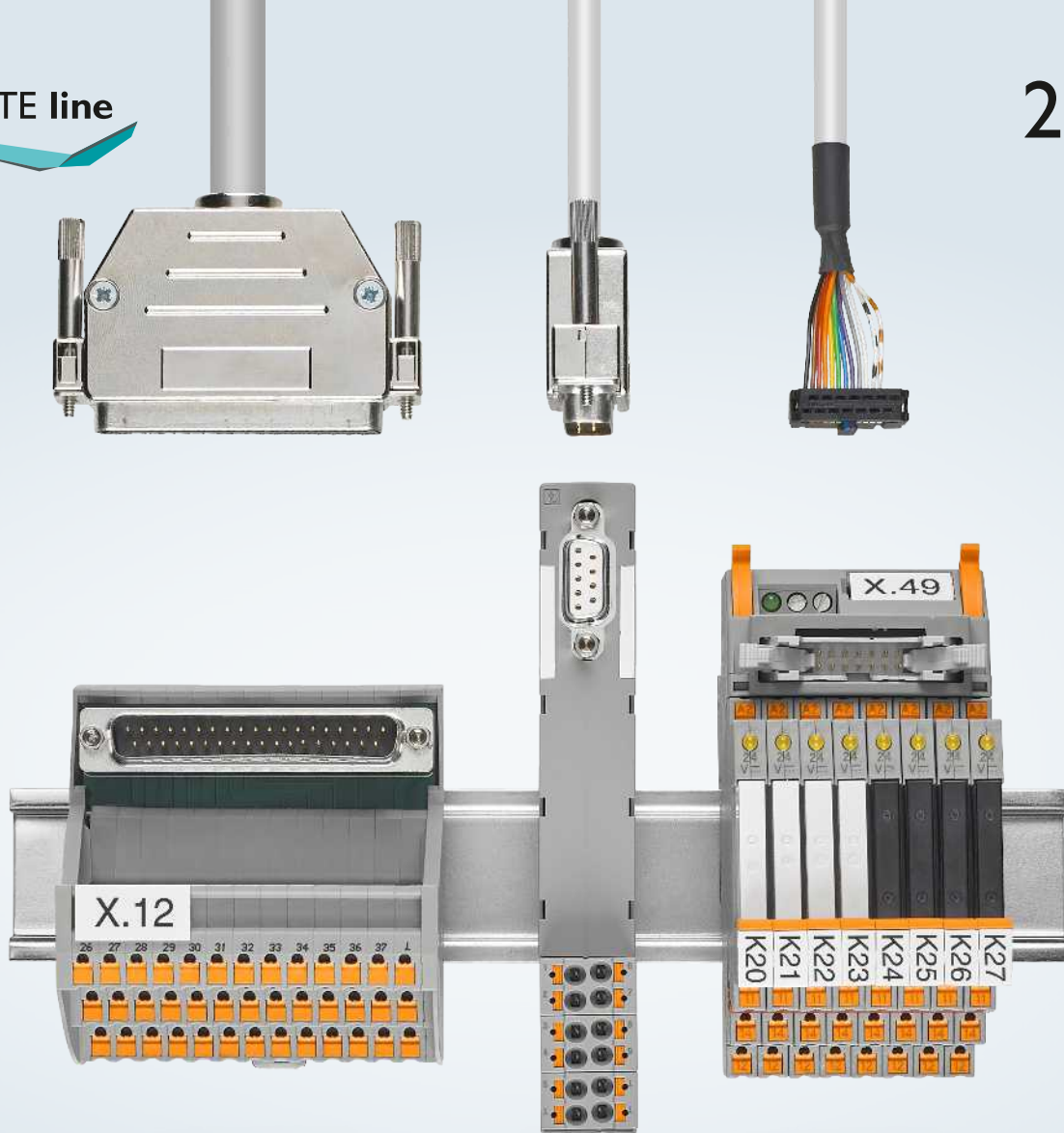


COMPLETE line

2023



# System cabling for controllers

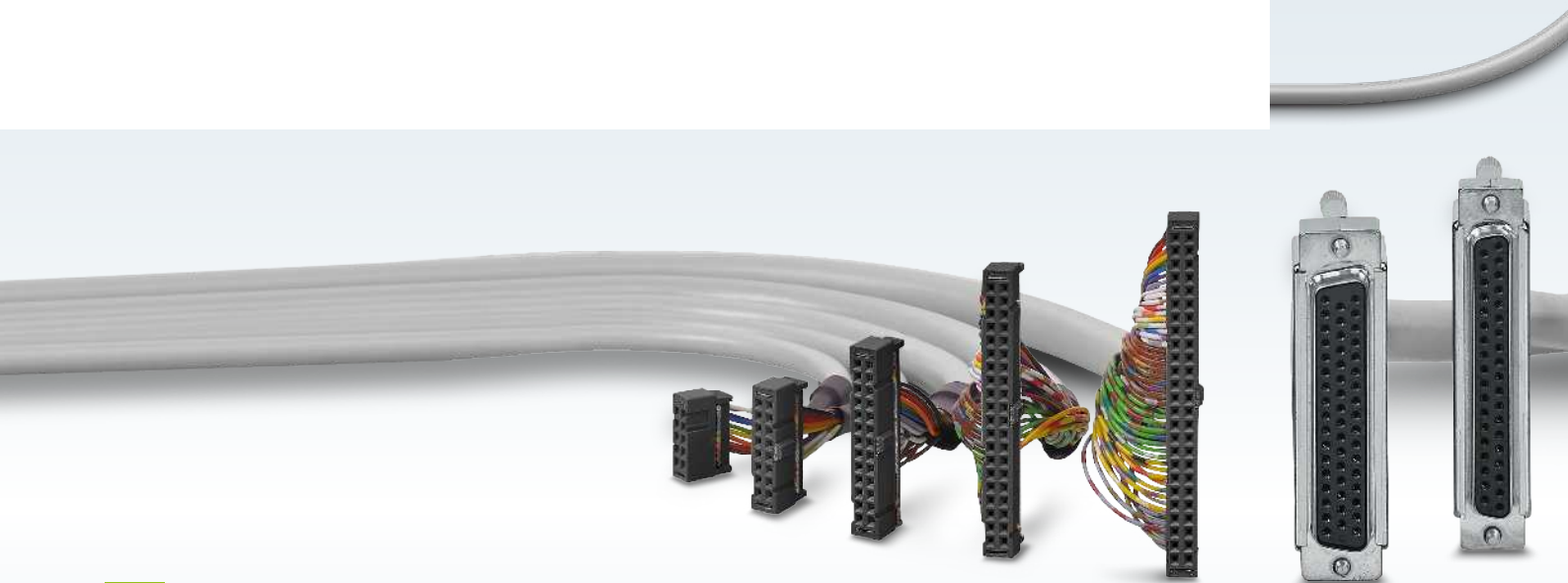
Fast, safe, and error-free wiring of signals



# System cabling for controllers

## The VARIOFACE product portfolio

Our VARIOFACE system cabling provides you with compact solutions for the simple planning, assembly, and commissioning of your automation system. Plug-in system cables and termination boards ensure fast, safe, and error-free wiring. This saves you time and reduces your costs considerably.

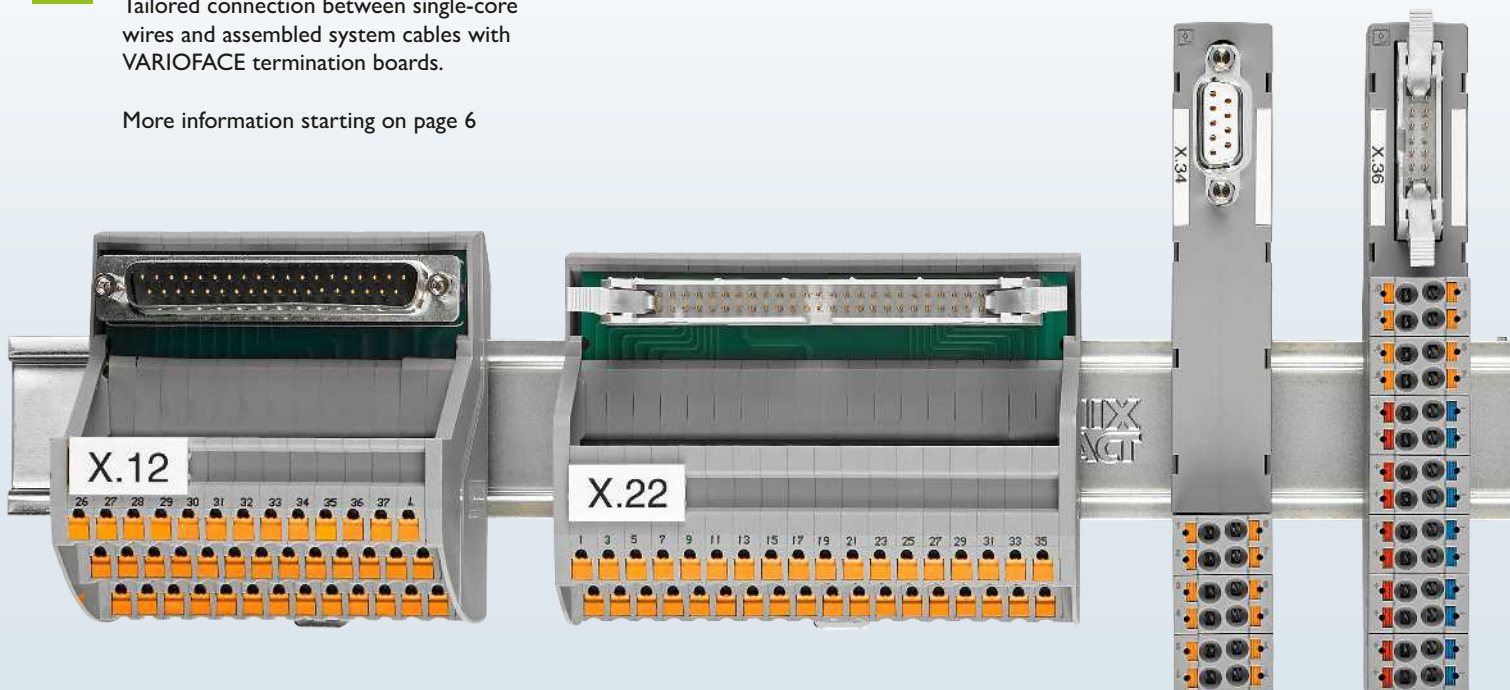


1

### Termination boards

Tailored connection between single-core wires and assembled system cables with VARIOFACE termination boards.

More information starting on page 6





3

### Controller-specific system cabling

Optimal adaptation to I/O cards with VARIOFACE front adapters.

More information starting on page 32

2

### System cables

Assembled VARIOFACE system cables for quick plug-in connections.

More information starting on page 22



## Contents

|                                    |    |
|------------------------------------|----|
| Termination boards                 | 6  |
| VARIOFACE Professional             | 8  |
| VARIOFACE Front Connect            | 14 |
| VARIOFACE PLC-V8 adapters          | 18 |
| System cables                      | 22 |
| Controller-specific system cabling | 32 |
| COMPLETE line                      | 60 |

## COMPLETE line

The new standard for the control cabinet.  
More information on pages 60 to 63

## Reduce wiring effort

The planning, assembly, and commissioning of automation systems often take a large amount of time. Wiring errors and tedious troubleshooting between control level and field level cannot be ruled out. With the VARIOFACE system cabling product portfolio

from Phoenix Contact, these difficulties are a thing of the past. Benefit from standardized and individual solutions for front adapters, system cables, and termination boards.

### VARIOFACE system cables

Every plug-in connection needs a cable. System cables for IDC/FLK and D-SUB connectors are available preassembled in all lengths.



### VARIOFACE termination boards

Wherever connectors need to be connected with single-core wires, termination boards are the perfect solution.

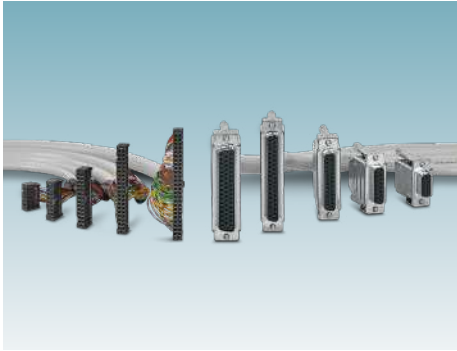


# VARIOFACE system cabling: The plug-and-play concept



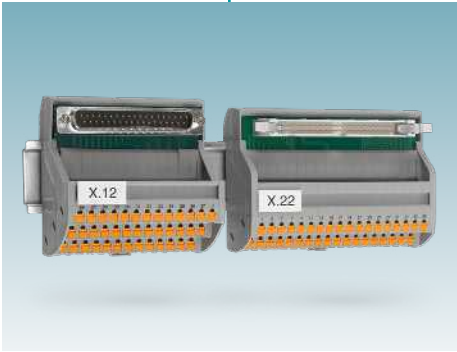
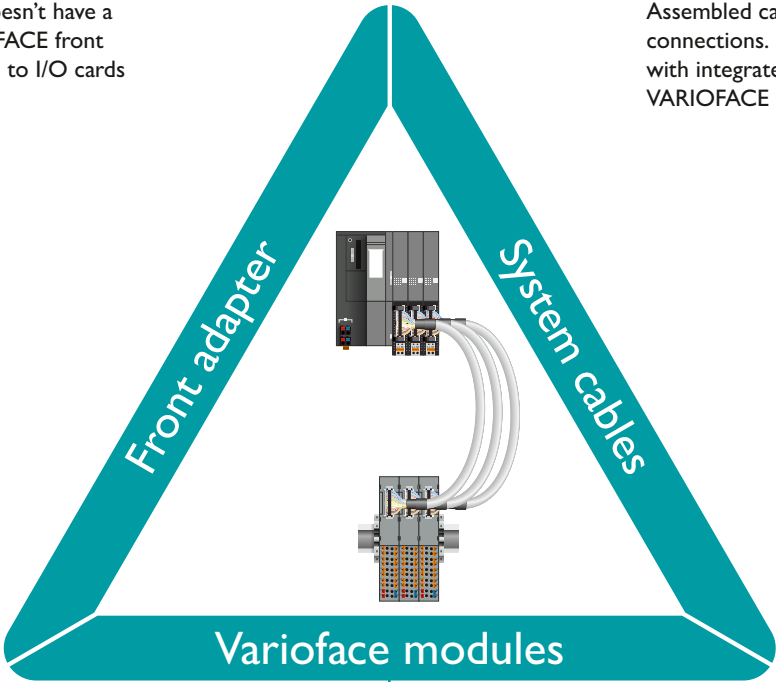
## VARIOFACE front adapters

The module you need to wire doesn't have a connector? No problem. VARIOFACE front adapters with tailored adaptation to I/O cards handle this task.



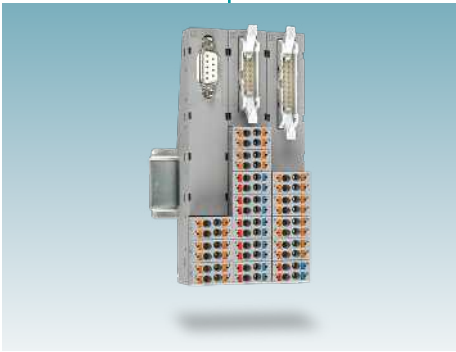
## VARIOFACE system cables

Assembled cables for quick plug-in connections. Plug-and-play to your devices with integrated connector or to our VARIOFACE front adapters.



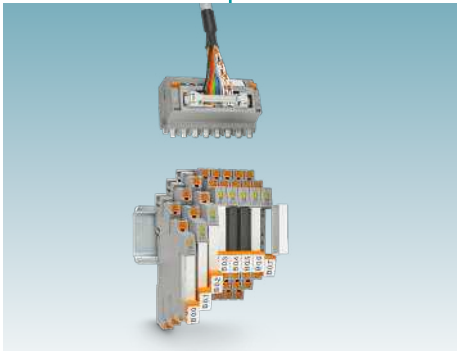
## VARIOFACE Professional

Universal termination boards for all applications



## VARIOFACE Front Connect

Narrow termination boards with front connections



## VARIOFACE V8 adapters

The plug-in connection for relay modules

# Termination boards for fast and safe wiring

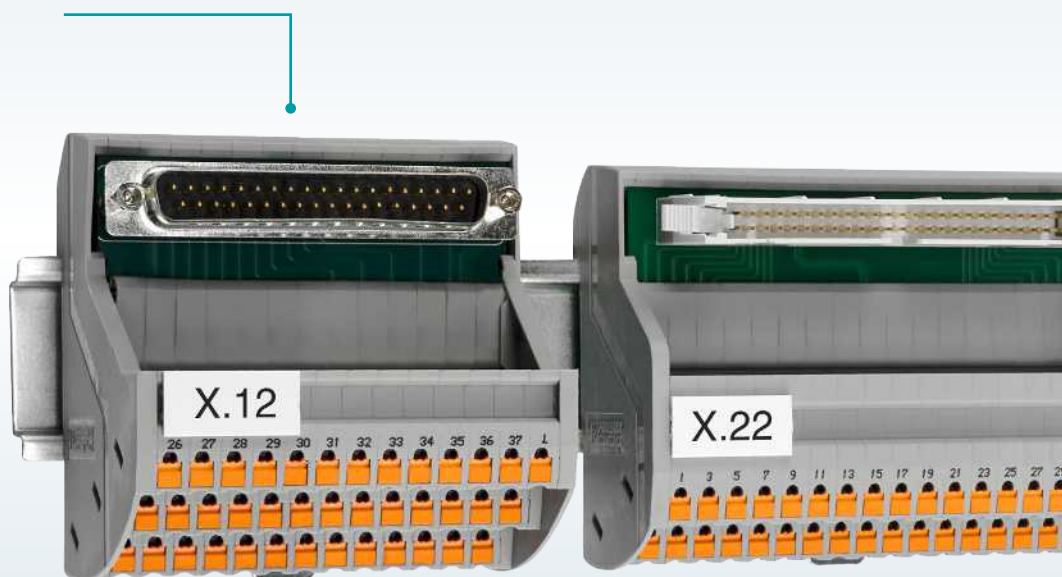
1

VARIOFACE termination boards ensure reliable signal transmission between the field level and automation level. The universal termination boards couple high-position connectors, such as IDC/FLK, D-SUB, or RJ45, to screw or Push-in connections. In conjunction with our universal system cables, you benefit from fast wiring that is protected against polarity reversal.

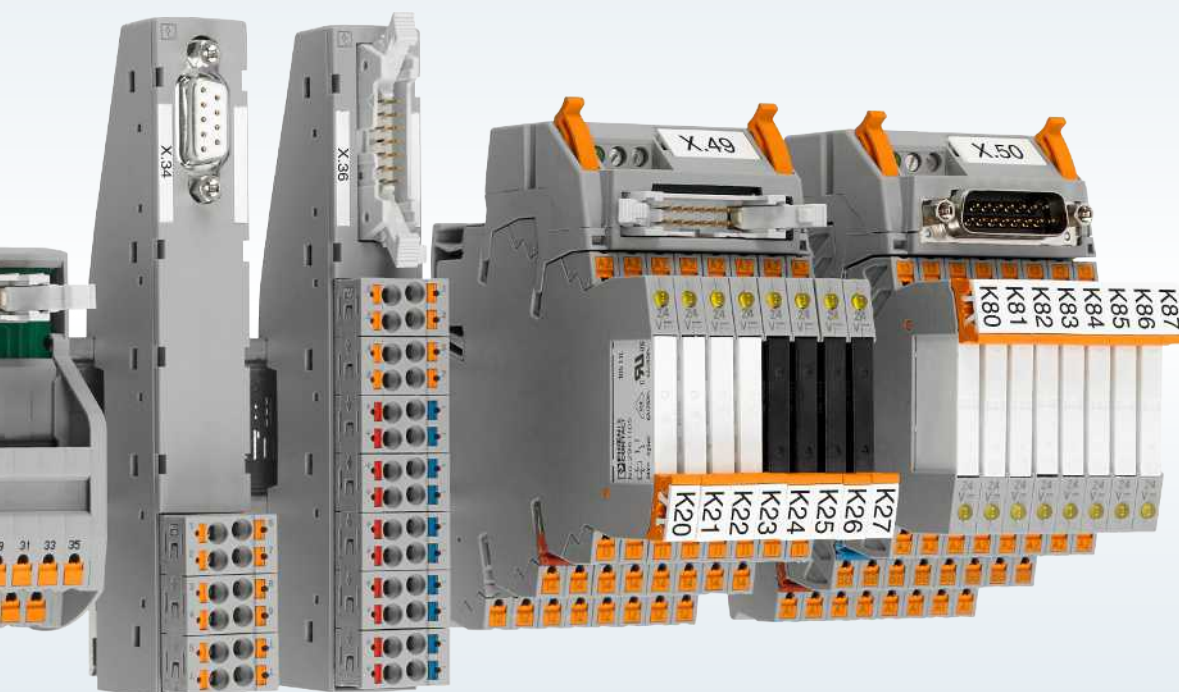
## VARIOFACE Professional

Universal termination boards for all applications

More information starting on page 8



|                       | Universal termination boards<br><b>VARIOFACE Professional</b>                                            | Narrow termination boards with front<br>connections<br><b>VARIOFACE Front Connect</b> | System cabling adapters for relay<br>applications<br><b>VARIOFACE V8 adapters</b>              |
|-----------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Connection technology | Push-in, screw                                                                                           | Push-in                                                                               | Plug-in contacts to relay modules for PLC-INTERFACE 6.2 mm / 14 mm relays and RIFLINE complete |
| Connectors            | D-SUB, HD-SUB, IDC/FLK, RJ45                                                                             | D-SUB, IDC/FLK                                                                        | D-SUB, IDC/FLK                                                                                 |
| Number of positions   | 9, 15, 25, 37, 50 (D-SUB)<br>15, 26, 44, 62 (HD-SUB)<br>10, 14, 16, 20, 26, 34, 40, 50, 60, 64 (IDC/FLK) | 9, 15 (D-SUB)<br>14, 16, 20 (IDC/FLK)                                                 | 15-pos. (D-SUB) and 14-pos. (IDC/FLK)                                                          |
| Special versions      | Potential distributors<br>Feed-through modules<br>LED indicator                                          | No                                                                                    | No                                                                                             |
| Overall width         | Type-dependent                                                                                           | 19 mm                                                                                 | 50 mm (6.2 mm PLC-INTERFACE)<br>112.5 mm (14 mm PLC-INTERFACE)<br>128 mm (RIFLINE complete)    |



## VARIOFACE Front Connect

Narrow termination boards with front connections

More information starting on page 14

## VARIOFACE V8 adapters

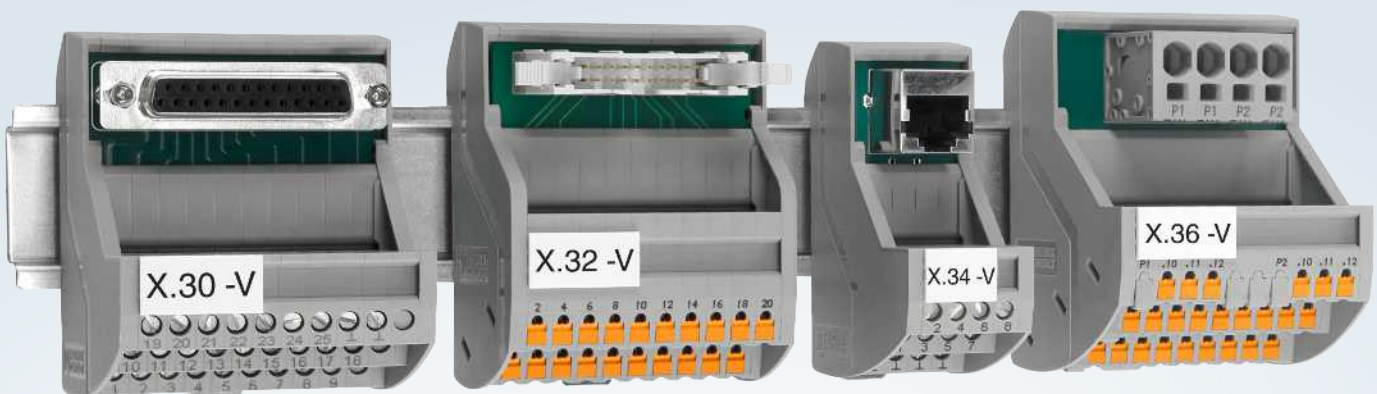
The plug-in connection for relay modules

More information starting on page 18

## Termination boards

# VARIOFACE Professional Universal termination boards

With our universal termination boards, you get a coordinated, modular, and robust system for optimum connection between control level and field level. They can be used in any application and enable the implementation of space-saving connections. Modules for signal transmission and potential distribution are available, depending on the application. Wherever connectors need to be connected with single-core wires, termination boards are the perfect solution.



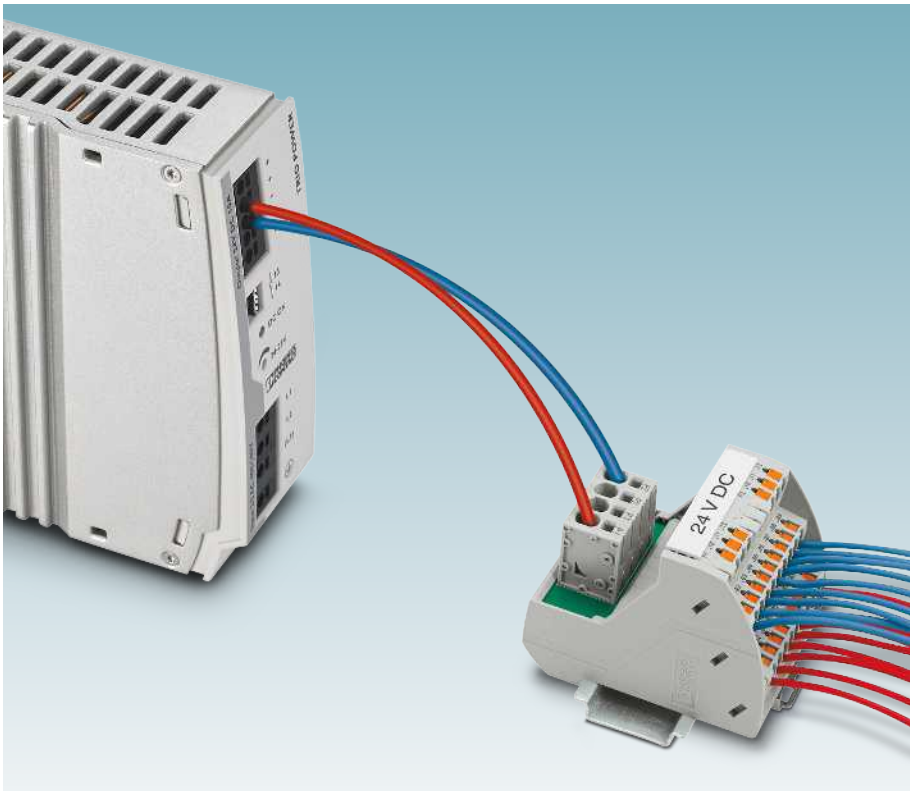
### Your advantages

- ✓ Universal modules for all common numbers of positions, with screw or Push-in connection technology
- ✓ Easy handling due to the metal foot for DIN rail mounting
- ✓ Modules can be precisely defined due to variable marking

| Modules for connectors with Push-in or screw connections                          |                                                                                   |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |
| IDC/FLK connectors                                                                | D-SUB connectors                                                                  | HD-SUB connectors                                                                   |
| Termination boards with 1:1 connection for mounting on NS 35 DIN rails            |                                                                                   |                                                                                     |
|  |  |  |
| RJ45 connectors                                                                   | D-SUB connectors                                                                  | IDC/FLK and D-SUB connectors                                                        |
| Termination boards with 1:1 connection for mounting on NS 35 DIN rails            | Feed-through modules with 1:1 connection                                          | Controller-specific modules (starting on page 36)                                   |

VARIOFACE potential distributors

Whether for operating voltage distribution or control voltage distribution, VARIOFACE potential distributors are rated up to 250 V/30 A, and can therefore be used in many different applications. They enable the simple and precise distribution of electrical signals in a small amount of space.



Potential distributor connection to a power supply

Selection of VARIOFACE Professional modules

| VARIOFACE Professional modules |                                                                                                                                                                     |                         |                                                                                                                                                                        |                         |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| With IDC/FLK pin strip         |                                                                                                                                                                     |                         |                                                                                                                                                                        |                         |
|                                |   |                         |   |                         |
|                                | 2 levels                                                                                                                                                            |                         | 3 levels                                                                                                                                                               |                         |
| Number of positions            | Push-in connection                                                                                                                                                  | Screw connection        | Push-in connection                                                                                                                                                     | Screw connection        |
| 10-pos.                        | <a href="#">2903787</a>                                                                                                                                             | <a href="#">2315010</a> |                                                                                                                                                                        |                         |
| 14-pos.                        | <a href="#">2903788</a>                                                                                                                                             | <a href="#">2315023</a> |                                                                                                                                                                        |                         |
| 16-pos.                        | <a href="#">2903789</a>                                                                                                                                             | <a href="#">2315036</a> |                                                                                                                                                                        |                         |
| 20-pos.                        | <a href="#">2903790</a>                                                                                                                                             | <a href="#">2315049</a> |                                                                                                                                                                        |                         |
| 26-pos.                        |                                                                                                                                                                     |                         | <a href="#">2903791</a>                                                                                                                                                | <a href="#">2315052</a> |
| 34-pos.                        |                                                                                                                                                                     |                         | <a href="#">2903792</a>                                                                                                                                                | <a href="#">2315065</a> |
| 40-pos.                        |                                                                                                                                                                     |                         | <a href="#">2903793</a>                                                                                                                                                | <a href="#">2315078</a> |
| 50-pos.                        |                                                                                                                                                                     |                         | <a href="#">2903794</a>                                                                                                                                                | <a href="#">2315081</a> |
| 60-pos.                        |                                                                                                                                                                     |                         | <a href="#">2903795</a>                                                                                                                                                | <a href="#">2315094</a> |
| 64-pos.                        |                                                                                                                                                                     |                         | <a href="#">2903796</a>                                                                                                                                                | <a href="#">2315104</a> |

# Selection of VARIOFACE Professional modules

1

2

3

Termination boards

## VARIOFACE Professional modules

### With D-SUB pin strip

|                     |  |  |  |  |
|---------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                     | 2 levels                                                                          |                                                                                   | 3 levels                                                                           |                                                                                     |
| Number of positions | Push-in connection                                                                | Screw connection                                                                  | Push-in connection                                                                 | Screw connection                                                                    |
| 9-pos.              | 2903777                                                                           | 2315117                                                                           |                                                                                    |                                                                                     |
| 15-pos.             | 2903779                                                                           | 2315120                                                                           |                                                                                    |                                                                                     |
| 25-pos.             |                                                                                   |                                                                                   | 2903781                                                                            | 2315133                                                                             |
| 37-pos.             |                                                                                   |                                                                                   | 2903783                                                                            | 2315146                                                                             |
| 50-pos.             |                                                                                   |                                                                                   | 2903785                                                                            | 2315159                                                                             |

### With D-SUB female strip

|                     |  |  |  |  |
|---------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                     | 2 levels                                                                           |                                                                                    | 3 levels                                                                            |                                                                                      |
| Number of positions | Push-in connection                                                                 | Screw connection                                                                   | Push-in connection                                                                  | Screw connection                                                                     |
| 9-pos.              | 2903778                                                                            | 2315162                                                                            |                                                                                     |                                                                                      |
| 15-pos.             | 2903780                                                                            | 2315175                                                                            |                                                                                     |                                                                                      |
| 25-pos.             |                                                                                    |                                                                                    | 2903782                                                                             | 2315188                                                                              |
| 37-pos.             |                                                                                    |                                                                                    | 2903784                                                                             | 2315191                                                                              |
| 50-pos.             |                                                                                    |                                                                                    | 2903786                                                                             | 2315201                                                                              |

# Selection of VARIOFACE Professional modules

| VARIOFACE Professional modules       |                                                                                    |                                                                                    |                                                                                      |                                                                                       |
|--------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| With high-density D-SUB pin strip    |                                                                                    |                                                                                    |                                                                                      |                                                                                       |
|                                      |                                                                                    |                                                                                    |    |    |
|                                      |                                                                                    |                                                                                    | 3 levels                                                                             |                                                                                       |
| Number of positions                  |                                                                                    |                                                                                    | Push-in connection                                                                   | Screw connection                                                                      |
| 26-pos.                              |                                                                                    |                                                                                    | 2904269                                                                              | 2322375                                                                               |
| 44-pos.                              |                                                                                    |                                                                                    | 2904270                                                                              | 2322388                                                                               |
| 62-pos.                              |                                                                                    |                                                                                    | 2904271                                                                              | 2322391                                                                               |
| With high-density D-SUB female strip |                                                                                    |                                                                                    |                                                                                      |                                                                                       |
|                                      |  |  |   |   |
|                                      | 2 levels                                                                           |                                                                                    | 3 levels                                                                             |                                                                                       |
| Number of positions                  | Push-in connection                                                                 | Screw connection                                                                   | Push-in connection                                                                   | Screw connection                                                                      |
| 15-pos.                              | 2904272                                                                            | 2322401                                                                            |                                                                                      |                                                                                       |
| 26-pos.                              |                                                                                    |                                                                                    | 2904273                                                                              | 2322414                                                                               |
| 44-pos.                              |                                                                                    |                                                                                    | 2904274                                                                              | 2322427                                                                               |
| 62-pos.                              |                                                                                    |                                                                                    | 2904275                                                                              | 2322430                                                                               |
| VARIOFACE Professional modules       |                                                                                    |                                                                                    |                                                                                      |                                                                                       |
| With RJ45 connector                  |                                                                                    |                                                                                    |                                                                                      |                                                                                       |
|                                      |                                                                                    |                                                                                    |  |  |
|                                      |                                                                                    |                                                                                    | 3 levels                                                                             |                                                                                       |
| Number of positions                  |                                                                                    |                                                                                    | Push-in connection                                                                   | Screw connection                                                                      |
| 8-pos.                               |                                                                                    |                                                                                    | 2904290                                                                              | 2900701                                                                               |

## Selection of VARIOFACE Professional modules

1

2

3

Termination boards

### Potential distributors

|                               |                                                                                   |                                                                                    |                                                                                     |
|-------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                               |  |  |  |
|                               | 2 levels                                                                          | 3 levels                                                                           | 2 levels, with fuse                                                                 |
| Feed-in                       | Screw connection                                                                  | Push-in connection                                                                 |                                                                                     |
| 2x feed-in / 8x distribution  | 2315256                                                                           | 2903797                                                                            | 2903603                                                                             |
| 2x feed-in / 12x distribution | 2315269                                                                           | 2903798                                                                            |                                                                                     |
| 2x feed-in / 16x distribution | 2315272                                                                           | 2903799                                                                            |                                                                                     |
| 2x feed-in / 24x distribution | 2903717                                                                           | 2903800                                                                            |                                                                                     |

### UMK modules

#### With ELCO connector

|                     |                                                                                    |                                                                                      |
|---------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                     |  |  |
|                     | Pin strip 8016 left                                                                | Pin strip 8016 right                                                                 |
| Number of positions | Screw connection                                                                   | Screw connection                                                                     |
| 38-pos.             | 2976284                                                                            | 2976297                                                                              |
| 56-pos.             | 2975890                                                                            | 2975900                                                                              |

### Feed-through modules

|                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
|---------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                     |  |  |  |  |
|                     | With D-SUB pin strip                                                                |                                                                                     | With D-SUB female strip                                                              |                                                                                       |
| Number of positions | Push-in spring connection                                                           | Screw connection                                                                    | Push-in spring connection                                                            | Screw connection                                                                      |
| 9-pos.              | 2903052                                                                             | 2283870                                                                             | 2903063                                                                              | 2287135                                                                               |
| 15-pos.             | 2903054                                                                             | 2280297                                                                             | 2903065                                                                              | 2280307                                                                               |
| 25-pos.             | 2903055                                                                             | 2280310                                                                             | 2903067                                                                              | 2280323                                                                               |
| 37-pos.             | 2903056                                                                             | 2280336                                                                             | 2903069                                                                              | 2280349                                                                               |
| 50-pos.             | 2903058                                                                             | 2291286                                                                             | 2903070                                                                              | 2287669                                                                               |

## Termination boards

# VARIOFACE Front Connect Termination boards with front connections

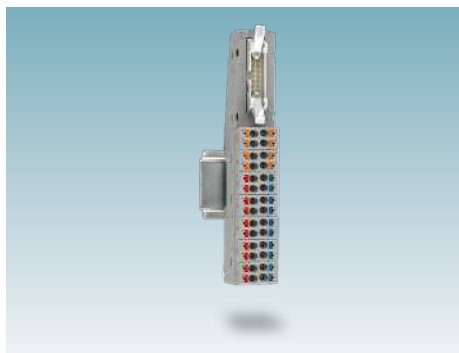
The new generation of ultra-compact termination boards is the perfect addition between the remote I/O system and the field level. An innovative design ensures fast and error-free wiring as well as space savings in the control cabinet. VARIOFACE Front Connect ideally supports decentralized peripherals with high flexibility and a narrow design.



### Your advantages

- ✓ Fast, clear, and error-free wiring thanks to Push-in terminal blocks with front connection technology
- ✓ Up to 60% less space required in the control cabinet thanks to the innovative design with a 19 mm overall width
- ✓ Plug-and-play connection to the remote I/O level and field level with a comprehensive system cabling range

# Remote I/O systems perfectly extended



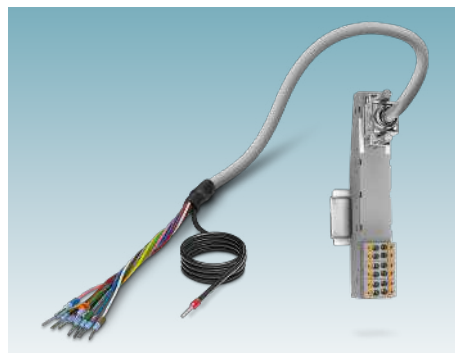
## Practical solution

Easy handling and intuitive wiring thanks to clear marking and colored push buttons.



## Engineering support

Easy planning and documentation thanks to available CAD data and EPLAN macros.



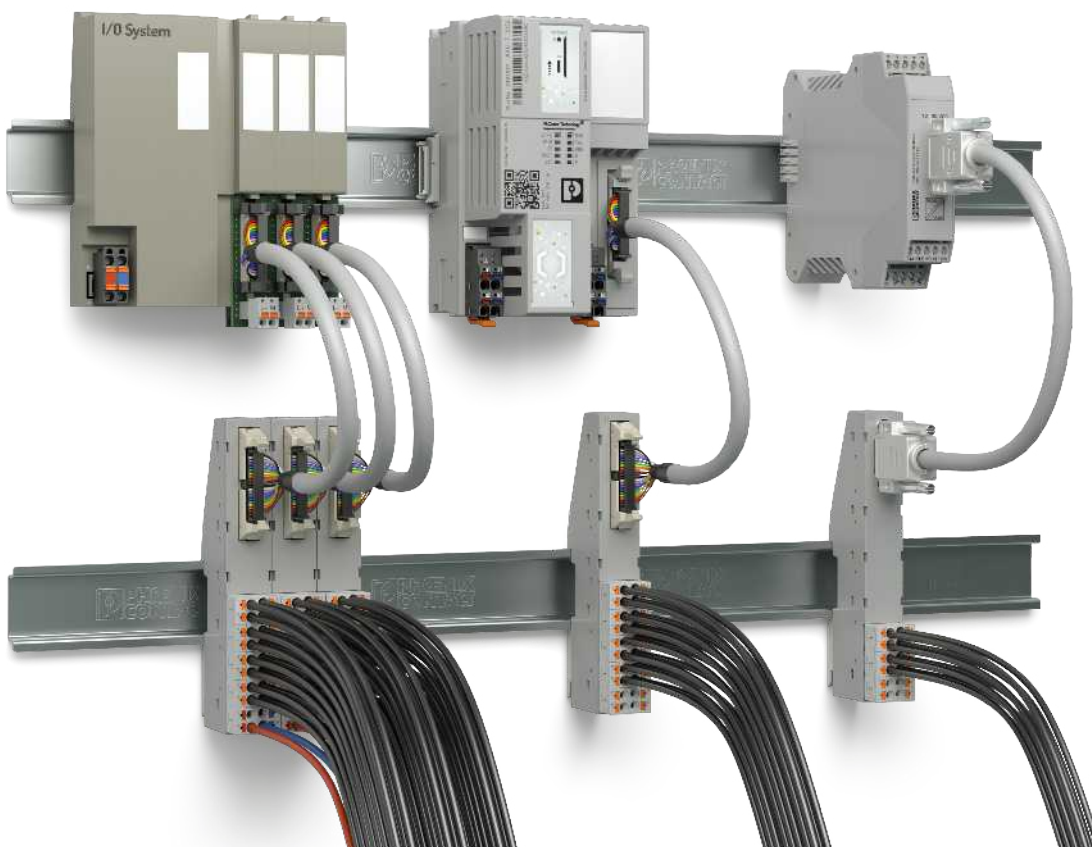
## Accessories

Tailored accessories such as system cables with free cable end for universal connections.

## VARIOFACE system cabling

Suitable for all common I/O systems:  
With the simple plug-in components, especially the new VARIOFACE Front Connect generation of termination boards, you can make time savings of up to 90% and space savings of

up to 60% in comparison with conventional solutions.



Selection of VARIOFACE Front Connect modules

| VARIOFACE Front Connect modules |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|---------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                 | Universal modules                                                                 |                                                                                   |                                                                                    | System cabling                                                                      |                                                                                     |
|                                 |  |  |  |  |  |
|                                 | 1:1 connection                                                                    |                                                                                   |                                                                                    | Siemens SIMATIC® ET 200SP                                                           | 8 channels with 20 +/- terminals                                                    |
| Number of positions             | D-SUB female strip                                                                | D-SUB pin strip                                                                   | IDC/FLK pin strip                                                                  | IDC/FLK pin strip                                                                   | IDC/FLK pin strip                                                                   |
| 9-pos.                          | 1278826                                                                           | 1278825                                                                           |                                                                                    |                                                                                     |                                                                                     |
| 14-pos.                         |                                                                                   |                                                                                   | 1278799                                                                            |                                                                                     | 1278798                                                                             |
| 15-pos.                         | 1278824                                                                           | 1278800                                                                           |                                                                                    |                                                                                     |                                                                                     |
| 16-pos.                         |                                                                                   |                                                                                   | 1278796                                                                            |                                                                                     |                                                                                     |
| 20-pos.                         |                                                                                   |                                                                                   | 1278794                                                                            | 1278788                                                                             |                                                                                     |



## Termination boards

### VARIOFACE PLC-V8 adapters

### The plug-in connection for relay modules

The system cabling adapter enables fast and error-free connection of relay modules to the control level. This solution combines the product features of PLC-INTERFACE and VARIOFACE system cabling. Depending on the switching requirement, the input and output block allows channel-specific assembly due to the modular design.



#### Your advantages

- ✓ Quick and easy connection of the coupling level and controller, as single-core wiring is no longer necessary
- ✓ High flexibility, as the modular design enables channel-specific assembly
- ✓ Sensor and actuator series enable direct connection of supply and return conductors



# Efficient wiring solution with VARIOFACE PLC-V8 adapters

1

2

3

Termination boards

## Efficient wiring between control level and interface level

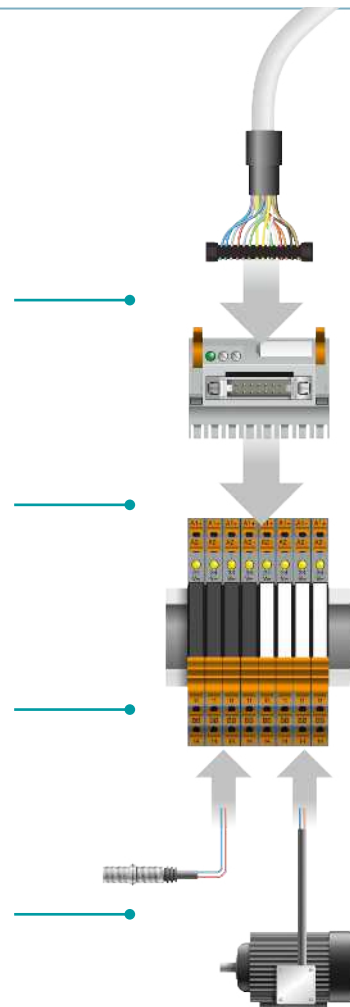
The PLC-V8 adapters are simply plugged into eight adjacent PLC-INTERFACE relays. This enables relays to be connected to I/O cards quickly and without errors via the PLC-V8 adapters with IDC/FLK or D-SUB connectors.

Assembled system cables coming from the controller are plugged into the PLC-V8 adapters

The PLC-V8 adapters are simply plugged into the bridge shafts of the PLC-INTERFACE relays

The PLC-INTERFACE relays form the coupling level between control level and field level

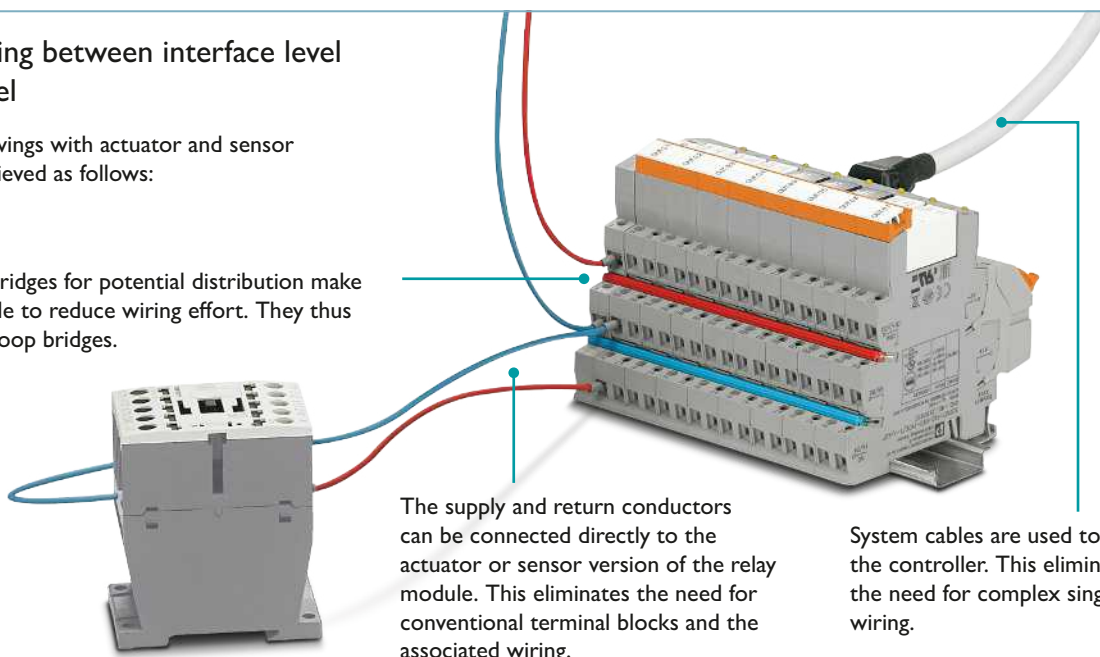
Sensors and actuators of the field level



## Efficient wiring between interface level and field level

The potential savings with actuator and sensor versions are achieved as follows:

Plug-in bridges for potential distribution make it possible to reduce wiring effort. They thus replace loop bridges.



The supply and return conductors can be connected directly to the actuator or sensor version of the relay module. This eliminates the need for conventional terminal blocks and the associated wiring.

System cables are used to wire the controller. This eliminates the need for complex single-core wiring.

# Selection of VARIOFACE PLC-V8 adapters

| VARIOFACE PLC-V8 adapters, plug-in connection for relay modules                     |                                                                                   |                       |                    |                    |          |                    |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------|--------------------|--------------------|----------|--------------------|
| V8 adapters                                                                         |                                                                                   |                       |                    |                    |          |                    |
|                                                                                     | Relay series                                                                      | Connection            | Function           | Polarity           | Item no. |                    |
|    | PLC-INTERFACE (6.2 mm)                                                            | IDC/FLK pin strip     | Output             | Positive switching | 2295554  |                    |
|                                                                                     |                                                                                   |                       |                    | Negative switching | 2304102  |                    |
|                                                                                     |                                                                                   |                       | Input              | Positive switching | 2296553  |                    |
|                                                                                     |                                                                                   |                       |                    | Negative switching | 2304115  |                    |
|    |                                                                                   | D-SUB female strip    | Output             | Positive switching | 2296061  |                    |
|                                                                                     |                                                                                   |                       | Input              |                    | 2296087  |                    |
|    |                                                                                   | D-SUB pin strip       | Output             |                    | 2296058  |                    |
|                                                                                     |                                                                                   |                       | Input              |                    | 2296074  |                    |
|                                                                                     |  | PLC-INTERFACE (14 mm) | IDC/FLK pin strip  |                    | Output   | 2299660            |
|                                                                                     |                                                                                   |                       |                    |                    |          | Negative switching |
| D-SUB pin strip                                                                     |                                                                                   |                       | Positive switching |                    |          | 1104789            |
|                                                                                     |                                                                                   |                       |                    |                    |          | 2905195            |
|  | RIFLINE complete (16 mm)                                                          | IDC/FLK pin strip     |                    |                    |          |                    |

| PLC-INTERFACE 6.2 mm input                                                          |                                                                                                                                                                                                                          |                    |                  |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------|
|                                                                                     | Description                                                                                                                                                                                                              | Push-in connection | Screw connection |
|  | PLC-INTERFACE for input functions, consisting of basic terminal block and plug-in miniature relay with multi-layer gold contact, for mounting on NS 35/7,5 DIN rail, 1 N/O contact, input voltage: 120 V AC/110 V DC     | 2900314            | 2966320          |
|                                                                                     | PLC-INTERFACE for input functions, consisting of basic terminal block and plug-in miniature relay with multi-layer gold contact, for mounting on NS 35/7,5 DIN rail, 1 N/O contact, input voltage: 230 V AC/220 V DC     | 2900315            | 2966333          |
|                                                                                     | PLC-INTERFACE for input functions, consisting of basic terminal block and plug-in miniature relay with multi-layer gold contact, for mounting on NS 35/7,5 DIN rail, 1 N/O contact, input voltage: 24 V DC               | 2900313            | 2966317          |
|  | PLC-INTERFACE for input functions, consisting of basic terminal block and plug-in miniature solid-state relay, for mounting on NS 35/7,5 DIN rail, 1 N/O contact, input: 120 V AC/110 V DC, output: 3 ... 48 V DC/100 mA | 2900359            | 2966799          |
|                                                                                     | PLC-INTERFACE for input functions, consisting of basic terminal block and plug-in miniature solid-state relay, for mounting on NS 35/7,5 DIN rail, 1 N/O contact, input: 230 V AC/220 V DC, output: 3 ... 48 V DC/100 mA | 2900361            | 2966809          |
|                                                                                     | PLC-INTERFACE for input functions, consisting of basic terminal block and plug-in miniature solid-state relay, for mounting on NS 35/7,5 DIN rail, 1 N/O contact, input: 24 V DC, output: 3 ... 48 V DC/100 mA           | 2900358            | 2966773          |

## Selection of VARIOFACE PLC-V8 adapters

1

2

3

Termination boards

| PLC-INTERFACE 6.2 mm output                                                       |                                                                                                                                                                                                              |                    |                  |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------|
|                                                                                   | Description                                                                                                                                                                                                  | Push-in connection | Screw connection |
|  | PLC-INTERFACE for output functions, consisting of basic terminal block and plug-in miniature relay with power contact, for mounting on NS 35/7,5 DIN rail, 1 N/O contact, input voltage: 24 V DC             | 2900312            | 2966210          |
|                                                                                   | PLC-INTERFACE, consisting of basic terminal block and plug-in miniature relay with power contact, for mounting on NS 35/7,5 DIN rail, 1 changeover contact, input voltage: 24 V DC                           | 2900299            | 2966171          |
|  | PLC-INTERFACE for output functions, consisting of basic terminal block and plug-in miniature solid-state relay, for mounting on NS 35/7,5 DIN rail, 1 N/O contact, input: 24 V DC, output: 3 ... 33 V DC/3 A | 2900376            | 2966676          |
|                                                                                   | PLC-INTERFACE, consisting of basic terminal block and plug-in miniature solid-state relay, for mounting on NS 35/7,5 DIN rail, 1 N/O contact, input: 24 V DC, output: 24 ... 253 V AC/0.75 A                 | 2900369            | 2967840          |
|                                                                                   | PLC-INTERFACE, consisting of basic terminal block and plug-in miniature solid-state relay, for mounting on NS 35/7,5 DIN rail, 1 N/O contact, input: 24 V DC, output: 3 ... 33 V DC/3 A                      | 2900364            | 2966634          |

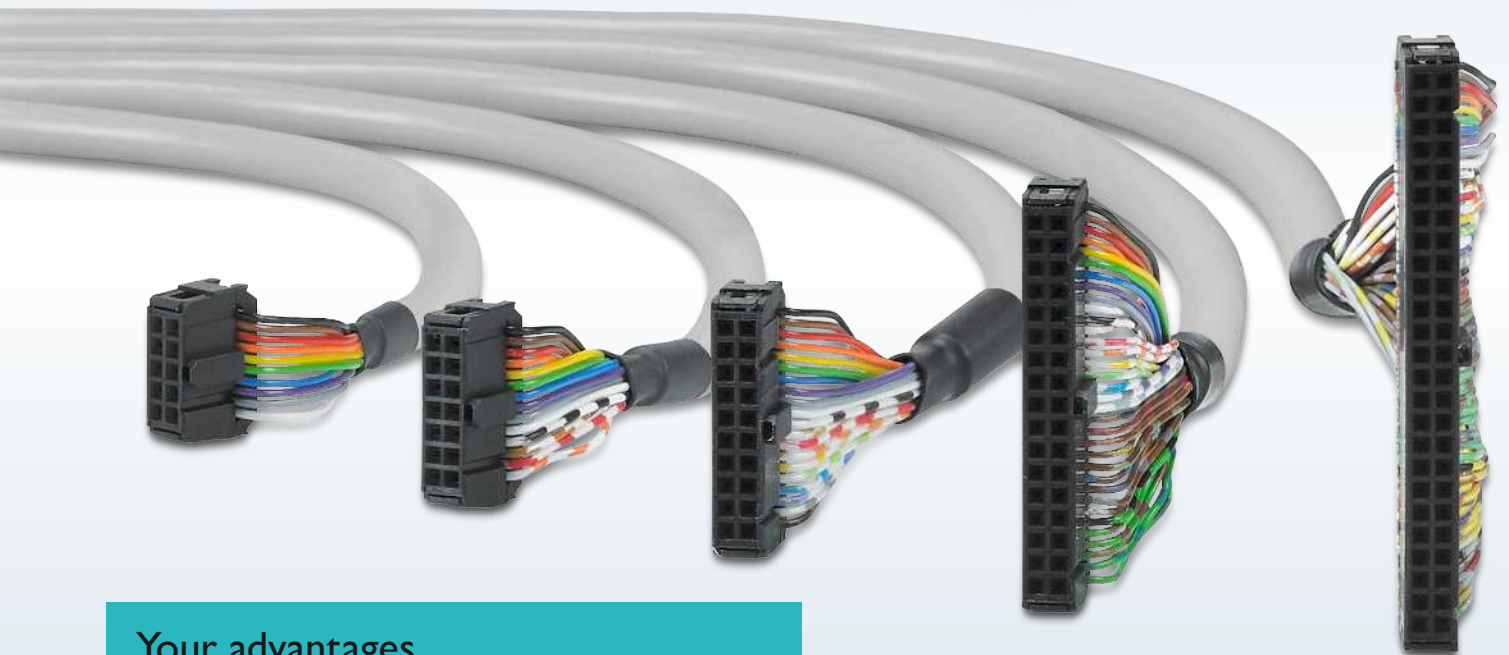
| PLC-INTERFACE 14 mm output                                                          |                                                                                                                                                                                                                                      |                    |                  |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------|
|                                                                                     | Description                                                                                                                                                                                                                          | Push-in connection | Screw connection |
|  | PLC-INTERFACE for high continuous currents, consisting of basic terminal block and plug-in miniature relay, for mounting on NS 35/7,5 DIN rail, limiting continuous current up to 10 A, 1 changeover contact, input voltage: 24 V DC | 2900291            | 2967620          |
|                                                                                     | PLC-INTERFACE for high inrush currents, consisting of basic terminal block and plug-in miniature relay, for mounting on NS 35/7,5 DIN rail, max. inrush current up to 800 A, 1 N/O contact, input voltage: 24 V DC                   | 1078683            | 1078680          |
|                                                                                     | PLC-INTERFACE, consisting of basic terminal block and plug-in miniature relay with power contact, for mounting on NS 35/7,5 DIN rail, 2 changeover contacts, input voltage: 24 V DC                                                  | 2900330            | 2967060          |
|  | PLC-INTERFACE for output functions, consisting of basic terminal block and plug-in miniature solid-state relay, for mounting on NS 35/7,5 DIN rail, 1 N/O contact, input: 24 V DC, output: 3 ... 33 V DC/5 A                         | 1194158            | 2982786          |

| RIFLINE complete output                                                            |                                                                                                                                                                                                                      |                    |                  |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------|
|                                                                                    | Description                                                                                                                                                                                                          | Push-in connection | Screw connection |
|  | Preassembled relay module, consisting of: relay base, power contact relay, plug-in display/interference suppression module, and retaining bracket. Contact type: 1 changeover contact. Input voltage: 24 V DC        | 2903342            | 2903358          |
|                                                                                    | Preassembled relay module, consisting of: relay base, power contact relay, plug-in display/interference suppression module, and retaining bracket. Contact type: 2 changeover contacts. Input voltage: 24 V DC       | 2903334            | 2903350          |
|                                                                                    | Preassembled relay module, consisting of: relay base, multi-layer contact relay, plug-in display/interference suppression module, and retaining bracket. Contact type: 1 changeover contact. Input voltage: 24 V DC  | 2903338            | 2903354          |
|                                                                                    | Preassembled relay module, consisting of: relay base, multi-layer contact relay, plug-in display/interference suppression module, and retaining bracket. Contact type: 2 changeover contacts. Input voltage: 24 V DC | 2903330            | 2903346          |

# 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

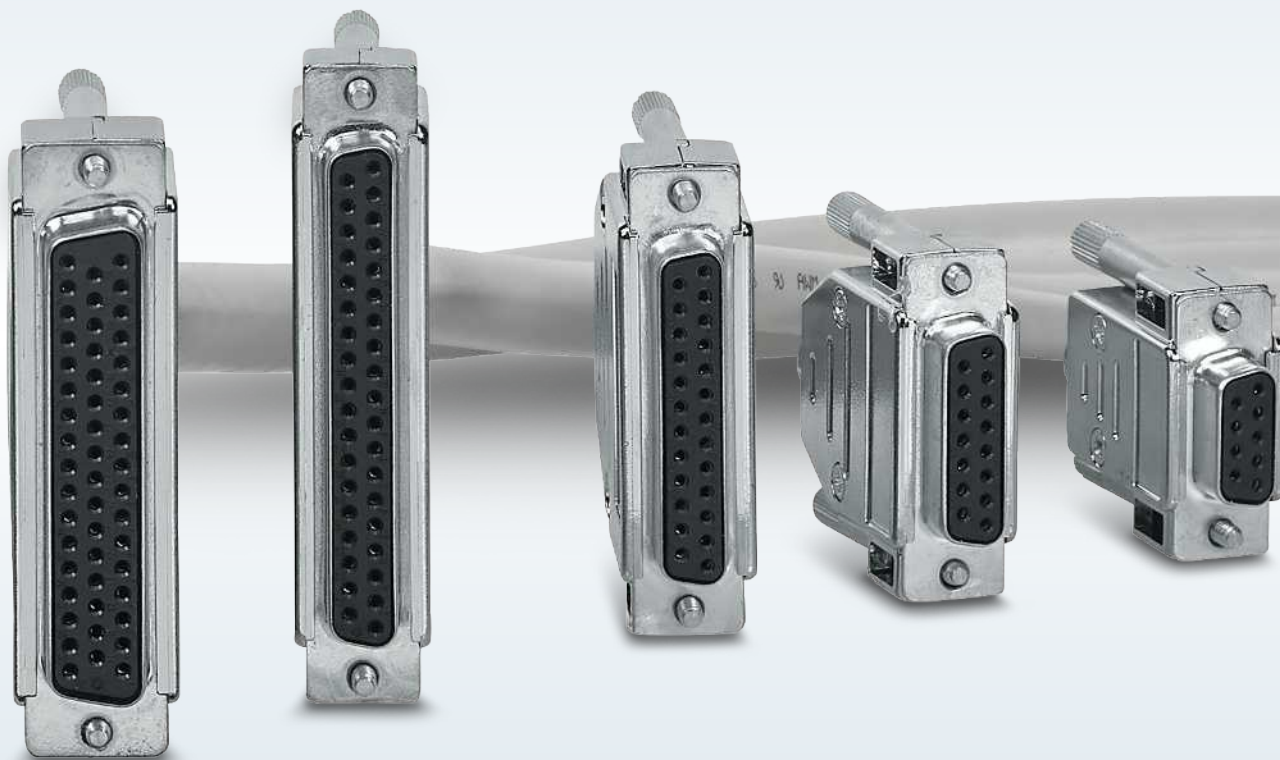
- ✓ Outstanding service: standard lengths from 0.5 to 10 m as well as custom lengths
- ✓ High current carrying capacity due to the large conductor cross-section of each single-core wire
- ✓ Flexible due to free cable end with single-core wire marking
- ✓ PVC for standard applications, alternatively halogen-free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

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

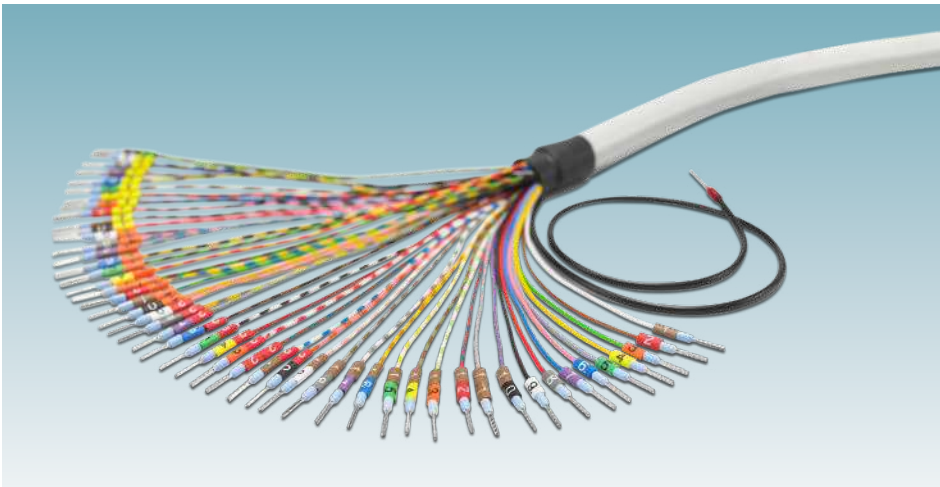
Number of positions: 10, 14, 16, 20, 50



# 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 |  |         |         |
|            | 2 |  |         |         |
|            | 3 |  |         |         |
|            | 4 |  |         |         |
|            | 5 |  |         |         |
|            | 6 |  |         |         |
|            | 7 |  |         |         |
|            | 8 |  |         |         |
|            | 9 |  |         | 9-pos.  |
| 1          | 0 |  | 10-pos. |         |
| 1          | 1 |  |         |         |
| 1          | 2 |  |         |         |
| 1          | 3 |  |         |         |
| 1          | 4 |  | 14-pos. |         |
| 1          | 5 |  |         | 15-pos. |
| 1          | 6 |  | 16-pos. |         |
| 1          | 7 |  |         |         |
| 1          | 8 |  |         |         |
| 1          | 9 |  |         |         |
| 2          | 0 |  | 20-pos. |         |
| 2          | 1 |  |         |         |
| 2          | 2 |  |         |         |
| 2          | 3 |  |         |         |
| 2          | 4 |  |         |         |
| 2          | 5 |  |         | 25-pos. |

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

# 1 Selection of system cables

2  
3  
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                                   | <a href="#">2296977</a>                                                           | <a href="#">2299097</a>                                                           | <a href="#">2305952</a>                                                            | <a href="#">2314134</a>                                                             |
| 1 m                                     | <a href="#">2296980</a>                                                           | <a href="#">2299107</a>                                                           | <a href="#">2305965</a>                                                            | <a href="#">2314147</a>                                                             |
| 1.5 m                                   | <a href="#">2296993</a>                                                           | <a href="#">2299110</a>                                                           | <a href="#">2305978</a>                                                            | <a href="#">2314150</a>                                                             |
| 2 m                                     | <a href="#">2297002</a>                                                           | <a href="#">2299123</a>                                                           | <a href="#">2305981</a>                                                            | <a href="#">2314163</a>                                                             |
| 2.5 m                                   |                                                                                   |                                                                                   | <a href="#">2305994</a>                                                            | <a href="#">2314176</a>                                                             |
| 3 m                                     | <a href="#">2299013</a>                                                           | <a href="#">2299136</a>                                                           | <a href="#">2304759</a>                                                            | <a href="#">2314189</a>                                                             |
| 4 m                                     | <a href="#">2299026</a>                                                           | <a href="#">2299149</a>                                                           | <a href="#">2304762</a>                                                            | <a href="#">2314192</a>                                                             |
| 6 m                                     | <a href="#">2299039</a>                                                           | <a href="#">2299152</a>                                                           | <a href="#">2306003</a>                                                            |                                                                                     |
| 8 m                                     | <a href="#">2299042</a>                                                           |                                                                                   |                                                                                    |                                                                                     |
| 10 m                                    | <a href="#">2299055</a>                                                           | <a href="#">2299178</a>                                                           |                                                                                    | <a href="#">2314244</a>                                                             |
| Variable                                | <a href="#">2295046</a>                                                           |                                                                                   | <a href="#">2314040</a>                                                            | <a href="#">2314257</a>                                                             |

# 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

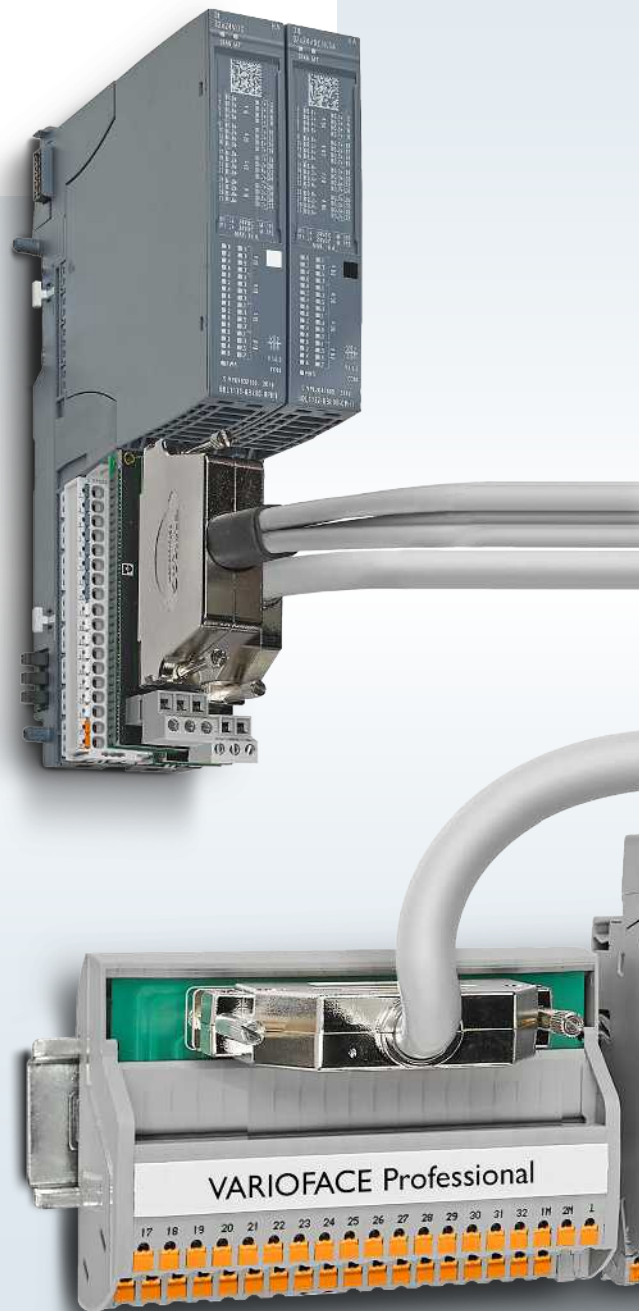
## Front adapter instead of single-core wiring

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



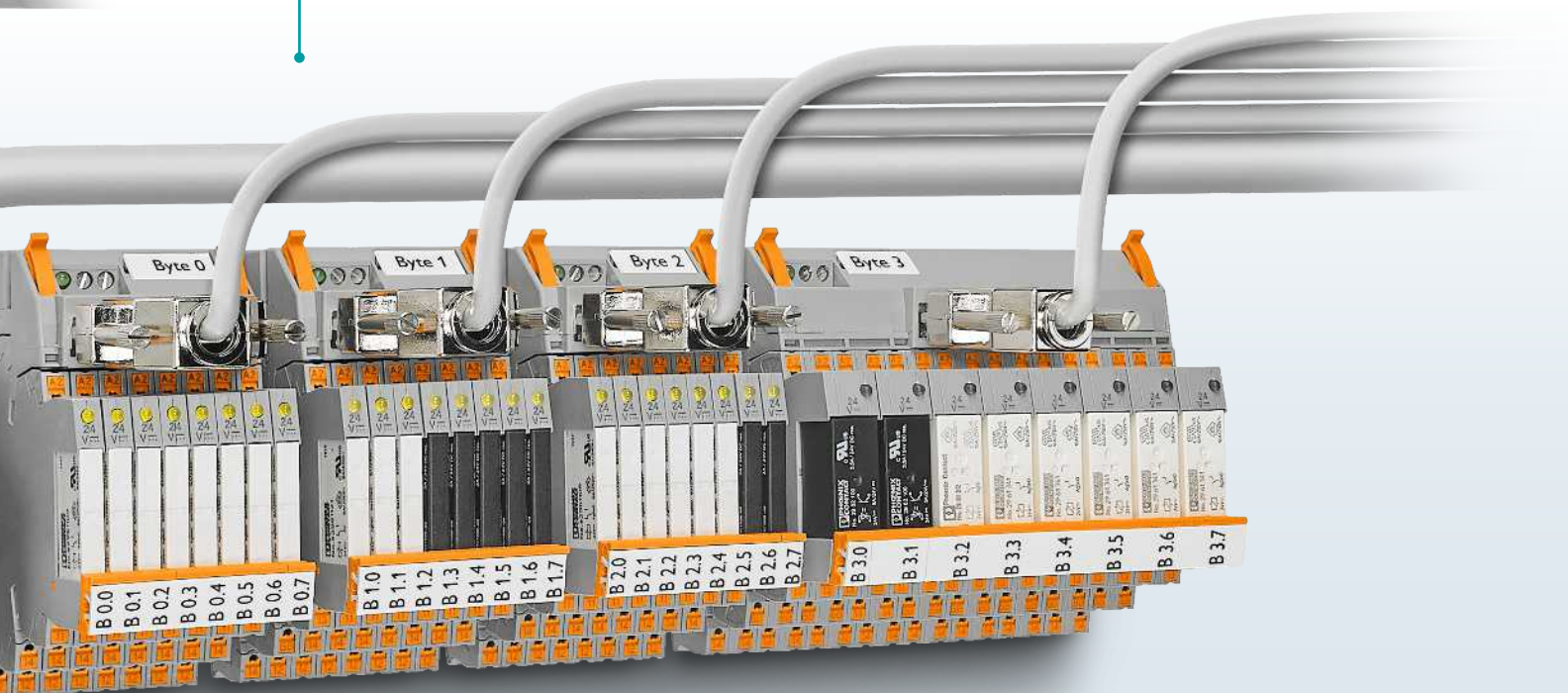
## Your advantages

- ✓ 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.

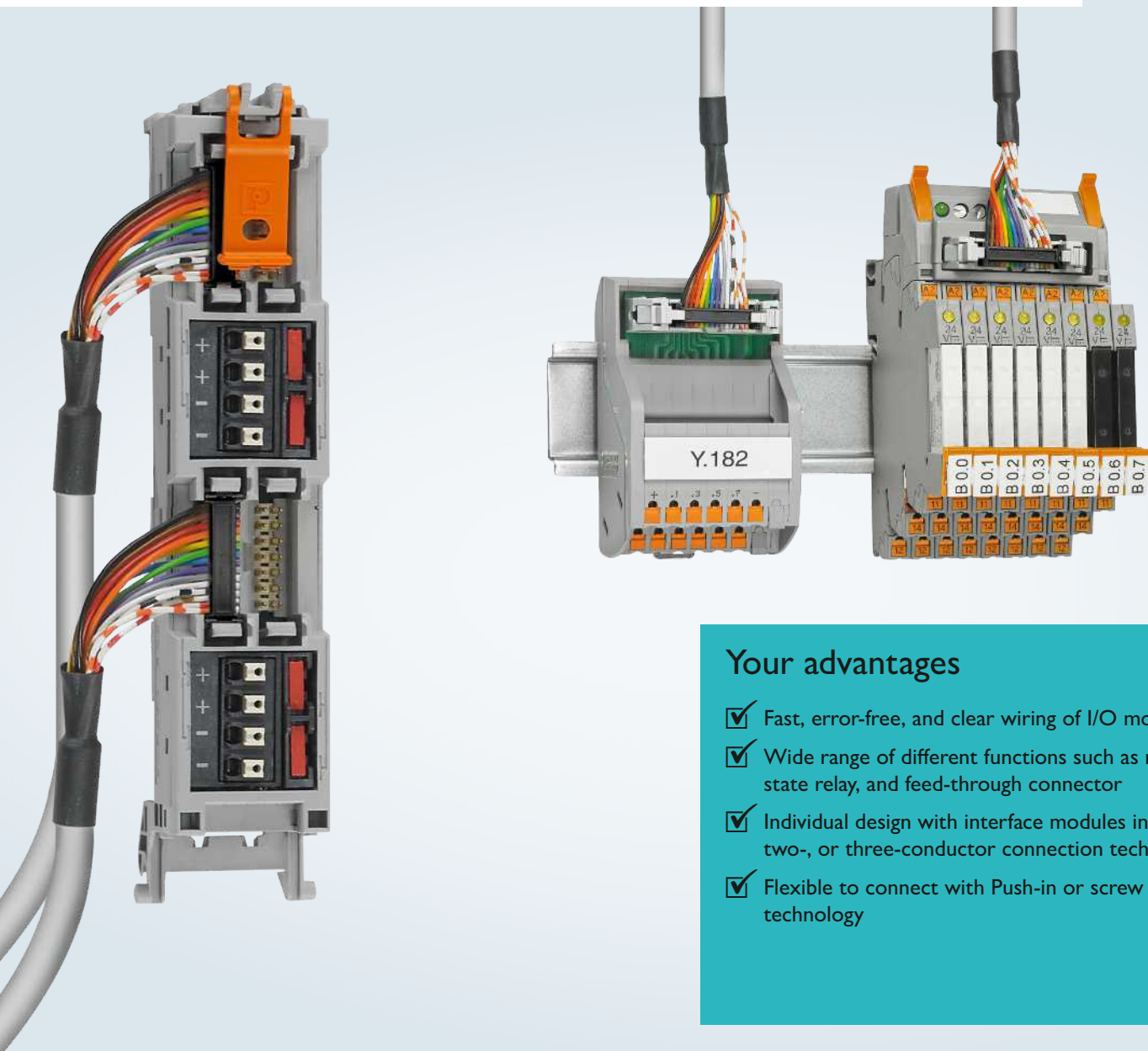
More information starting on page 34



## 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

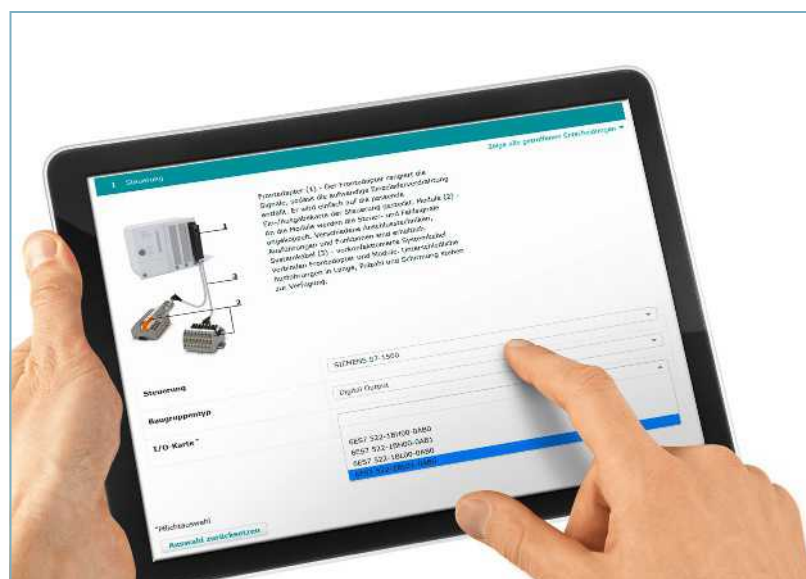
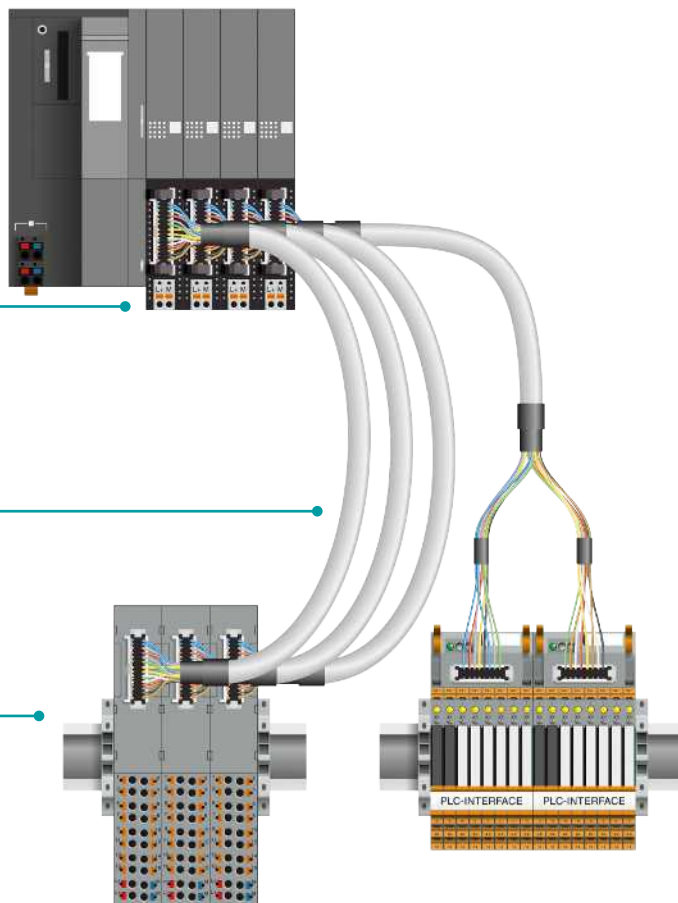
## The time-saving plug-and-play concept between control level and field level

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

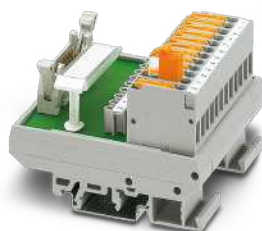
| ABB S800 I/O modules                                                                                                                                     |        | System cables                                                                                                                         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

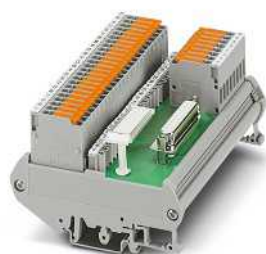
Four termination boards are required for 32-channel I/O modules with TU819.



**V8 adapters for PLC-INTERFACE**  
**V8 adapter for 8 DO, 6.2 mm relay** [2295554](#)  
**V8 adapter for 8 DO, 14 mm relay** [2299660](#)  
**V8 adapter for 8 DI, 6.2 mm relay** [2296553](#)

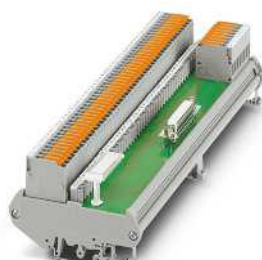
For selection of relays, see page 20/21

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

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

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

### or 2 x PLC-V8 adapter

|                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                     |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                    |  |
| <b>Termination boards with ControlLogix-specific marking</b><br>VIP-2/PT/2FLK14/AB-1756 <a href="#">2904288</a> (PT)<br>VIP-2/SC/2FLK14/AB-1756 <a href="#">2322333</a> (SC) | <b>Termination boards (8 DO) for 1756-OB16E:</b><br>VIP-2/PT/FLK14/PLC <a href="#">2903801</a> (PT)<br>VIP-2/SC/FLK14/PLC <a href="#">2315214</a> (SC)<br><b>2-conductor connection</b><br>VIP-2/PT/FLK14/8M/PLC <a href="#">2904283</a> (PT)<br>VIP-2/SC/FLK14/8M/PLC <a href="#">2322281</a> (SC)<br><b>3-conductor connection:</b><br>VIP-3/PT/FLK14/8IM/PLC <a href="#">2904282</a> (PT)<br>VIP-3/SC/FLK14/8IM/PLC <a href="#">2322278</a> (SC)<br><b>3-conductor connection, narrow design</b><br>VFC-PT/FLK14/PLC <a href="#">1278798</a> (PT) | <b>V8 adapters for PLC-INTERFACE</b><br><b>V8 adapter for 8 DO, 6.2 mm relay</b><br>PLC-V8/FLK14/OUT <a href="#">2295554</a><br><b>V8 adapter for 8 DO, 14 mm relay</b><br>PLC-V8L/FLK14/OUT <a href="#">2299660</a><br><br>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-PWVR/36XOE/.../1756<br>1.0 m <a href="#">2908859</a><br>2.0 m <a href="#">2908860</a><br>4.0 m <a href="#">2908861</a><br>6.0 m <a href="#">2908862</a> | 1756-IB16D<br>1756-IB16I<br>1756-IB32<br>1756-IF16<br>1756-IF8<br>1756-IF8I<br>1756-IRT8I<br>1756-OB16D<br>1756-OB16I<br>1756-OB32<br>1756-HSC<br>1756-IA16I | 1756-IA32<br>1756-IB16IF<br>1756-IB16ISOE<br>1756-IF16H<br>1756-IF4FXOF2F<br>1756-IF8H<br>1756-IF8IH<br>1756-IH16I<br>1756-IH16ISOE<br>1756-IM16I<br>1756-IR12<br>1756-IT16 | 1756-LSC8XIB8I<br>1756-IV32<br>1756-OA16I<br>1756-OB16IEF<br>1756-OB16IEFS<br>1756-OB16IS<br>1756-OB8EI<br>1756-OF8I<br>1756-OF8IH<br>1756-OH8I<br>1756-OV32E<br>1756-OW16I<br>1756-OX8I |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

# VARIOFACE system cabling for Honeywell C300

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

## 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**  
 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

# 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<br><br>2701813                                                                                                                                                                    | FLK 20/EZ-DR/ 50KONFEK<br>FLK 20/EZ-DR/ 100KONFEK<br>FLK 20/EZ-DR/ 150KONFEK<br>FLK 20/EZ-DR/ 200KONFEK<br>FLK 20/EZ-DR/ 300KONFEK<br>FLK 20/EZ-DR/ 400KONFEK<br>FLK 20/EZ-DR/ 600KONFEK<br>FLK 20/EZ-DR/ 800KONFEK<br>FLK 20/EZ-DR/1000KONFEK<br><br>Variable lengths | 2296391<br>2296401<br>2296472<br>2296485<br>2296498<br>2296508<br>2296511<br>2296524<br>2296537<br><br>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<br><br>2701813                                                                                                                                                                    | FLK 20/2FLK14/EZ-DR/.../KONFEK<br>0.5 m<br>1.0 m<br>2.0 m<br>3.0 m<br>4.0 m<br>5.0 m<br>10.0 m<br>Variable lengths                                                                                                                                                     | 2305059<br>2298470<br>2298438<br>2300818<br>2305237<br>2902707<br>2902708<br>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<br>AXL F DI16/1 HS 1H<br>AXL F DI32/1 1F<br>AXL F DI32/1 2H<br>AXL F DI32/1 XC 1F<br>AXL F DI64/1 2F<br>AXL F DO16/1 1H<br>AXL F DO32/1 1F<br>AXL F DO32/1 2H<br>AXL F DO32/1 XC 1F | <b>System cables for 8 DI or 8 DO:</b><br>CABLE-FLK14/AXIO/OE/0,14/...<br>0.5 m<br>1.0 m<br>1.5 m<br>2.0 m<br>3.0 m<br>4.0 m<br>6.0 m                                                                                                                                  | 1369888<br>1369897<br>1369902<br>1369904<br>1369905<br>1369906<br>1369909                                                  |

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

# VARIOFACE system cabling for Phoenix Contact Axioline Smart Elements

|                                                                                                   | Axioline Smart Elements I/O modules                                                 | System cables                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Connection of I/O modules in row A: 2 x system cable, 2 x termination board or 2 x PLC-V8 adapter |                                                                                     |                                                                                                                                                                                                                        |
| A                                                                                                 |    |                                                                                                                                     |
|                                                                                                   | AXL SE DI16/1<br>AXL SE DO16/1<br><br>1088127<br>1088129                            | <b>System cables for 8 DI or 8 DO:</b><br>CABLE-FLK14/AXIO/OE/0,14/...<br>0.5 m<br>1.0 m<br>1.5 m<br>2.0 m<br>3.0 m<br>4.0 m<br>6.0 m<br><br>1369888<br>1369897<br>1369902<br>1369904<br>1369905<br>1369906<br>1369909 |
| Connection of I/O modules in row B: 2 x system cable, 2 x termination board or 2 x PLC-V8 adapter |                                                                                     |                                                                                                                                                                                                                        |
| B                                                                                                 |  |                                                                                                                                   |
|                                                                                                   | AXL SE DI16/1 NPN<br>AXL SE DO16/1 NPN<br><br>1105559<br>1105560                    | <b>System cables for 8 DI or 8 DO:</b><br>CABLE-FLK14/AXIO/OE/0,14/...<br>0.5 m<br>1.0 m<br>1.5 m<br>2.0 m<br>3.0 m<br>4.0 m<br>6.0 m<br><br>1369888<br>1369897<br>1369902<br>1369904<br>1369905<br>1369906<br>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                                                                         |                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  Web code: #0007 |        |                                                                                                |                                                                 |                                                                                       |                                                                                                                                                                                                                          |
|                                                                                                   |        | Connection of I/O modules in row A: 1 x front adapter, 2 x system cable, 2 x termination board |                                                                 |                                                                                       |                                                                                                                                                                                                                          |
| <b>Digital input modules</b><br>DI 16X24VDC<br>BMXDDI1602                                         | A      |               | FLKM 14-PA-MODI/M340<br><br>2903208                             |    | FLK 14/EZ-DR/...KONFEK<br>0.5 m 2288901<br>1.0 m 2288914<br>1.5 m 2288927<br>2.0 m 2288930<br>3.0 m 2288956<br>4.0 m 2288972<br>6.0 m 2290863<br>8.0 m 2299563<br>10.0 m 2299576<br>Variable lengths 2295059/14U/C23/... |
| <b>Digital input modules</b><br>DI 32X24VDC<br>BMXDDI3202K                                        | B<br>C |                                                                                                |                                                                 |                                                                                       |                                                                                                                                                                                                                          |
|                                                                                                   |        | Connection of I/O modules in row B: 1 (2) x system cable, 1 (2) x termination board            |                                                                 |                                                                                       |                                                                                                                                                                                                                          |
| <b>Digital input modules</b><br>DI 64X24VDC<br>BMXDDI6402K                                        | B<br>C |               | Note:<br>A front adapter is not required for these I/O modules. |   | <b>System cables for 32 channels</b><br>CABLE-FCN40/1X50/.../M340<br>0.5 m 2321635<br>1.0 m 2321648<br>2.0 m 2321651<br>3.0 m 2321664<br>4.0 m 2321677<br>6.0 m 2321680<br>8.0 m 2321693<br>10.0 m 2321703               |
| <b>Digital output modules</b><br>DQ 16X24VDC<br>BMXDDO1602<br>BMXDDO1612<br>(negative logic)      | A      |                                                                                                |                                                                 |                                                                                       |                                                                                                                                                                                                                          |
| <b>Digital output modules</b><br>DQ 32X24VDC<br>BMXDDO3202K                                       | B<br>C |                                                                                                |                                                                 |                                                                                       |                                                                                                                                                                                                                          |
|                                                                                                   |        | Connection of I/O modules in row C: 1 (2) x system cable, 4 (8) x termination board            |                                                                 |                                                                                       |                                                                                                                                                                                                                          |
| <b>Digital output modules</b><br>DQ 64X24VDC<br>BMXDDO6402K                                       | B<br>C |             | Note:<br>A front adapter is not required for these I/O modules. |  | <b>System cables for 32 channels</b><br>CABLE-FCN40/4X14/.../M340<br>0.5 m 2321716<br>1.0 m 2321729<br>2.0 m 2321732<br>3.0 m 2321745<br>4.0 m 2321758<br>6.0 m 2321761<br>8.0 m 2321774<br>10.0 m 2321787               |
| <b>Digital input/output modules</b><br>DI 16/DQ16X24VDC<br>BMXDDM3202K                            | B<br>C |                                                                                                |                                                                 |                                                                                       |                                                                                                                                                                                                                          |

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** 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 BMXDDO1612 (negative logic):**

**V8 adapter for 8 DO, 6.2 mm relay** 2304102  
PLC-V8/FLK14/OUT/M

**V8 adapter for 8 DO, 14 mm relay** 2304306  
PLC-V8L/FLK14/OUT/M

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** 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

| 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                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Digital input modules</b><br>DI 16X24VDC<br>6ES7131-6BH01-0BA0<br>6ES7131-6BH01-2BA0                                                                                                                                                                                                                                                                               | A<br>B | <br><br>FLKM 20-PA-ET200SP   | <br><br>FLK 20/EZ-DR/...KONFEK<br>0.5 m <a href="#">2296391</a><br>1.0 m <a href="#">2296401</a><br>1.5 m <a href="#">2296472</a><br>2.0 m <a href="#">2296485</a><br>3.0 m <a href="#">2296498</a><br>4.0 m <a href="#">2296508</a><br>6.0 m <a href="#">2296511</a><br>8.0 m <a href="#">2296524</a><br>10.0 m <a href="#">2296537</a><br>Variable lengths <a href="#">2295059/20U/C61/...</a>   |
| <b>Digital input modules</b><br>DI 8X24VDC<br>6ES7131-6BF01-0BA0<br>6ES7131-6BF01-2BA0<br>6ES7131-6BF01-0AA0<br>6ES7131-6BF01-2AA0<br>6ES7131-6BF60-0AA0<br>6ES7131-6BF00-0CA0<br>6ES7131-6BF00-0DA0                                                                                                                                                                  | C      |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Digital output modules</b><br>DQ 16X24VDC<br>6ES7132-6BH01-0BA0<br>6ES7132-6BH01-2BA0                                                                                                                                                                                                                                                                              |        | <br><br>FLKM 20-PA-ET200SP  | <br><br>FLK 20/2FLK14/EZ-DR/.../KONFEK<br>0.5 m <a href="#">2305059</a><br>1.0 m <a href="#">2298470</a><br>2.0 m <a href="#">2298438</a><br>3.0 m <a href="#">2300818</a><br>4.0 m <a href="#">2305237</a><br>5.0 m <a href="#">2902707</a><br>10.0 m <a href="#">2902708</a><br>Variable lengths <a href="#">2304487/...</a>                                                                    |
| <b>Digital output modules</b><br>DQ 8X24VDC<br>6ES7132-6BF01-0BA0<br>6ES7132-6BF01-2BA0<br>6ES7132-6BF01-0AA0<br>6ES7132-6BF01-2AA0<br>6ES7132-6BF61-0AA0<br>6ES7132-6BF01-0CA0                                                                                                                                                                                       | C      |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Analog input modules</b><br>6ES7134-6GD01-0BA1<br>6ES7134-6GD01-2BA1<br>6ES7134-6HD01-0BA1<br>6ES7134-6HD01-2BA1<br>6ES7134-6TD00-0CA1<br>6ES7134-6JD00-0CA1<br>6ES7134-6JD00-2CA1<br>6ES7134-6FF00-0AA1<br>6ES7134-6GF00-0AA1<br>6ES7134-6JF00-0CA1<br>6ES7134-6JF00-2CA1<br>6ES7134-6FB00-0BA1<br>6ES7134-6GB00-0BA1<br>6ES7134-6HB00-0CA1<br>6ES7134-6HB00-0DA1 | A      | <br><br>FLKM 14-PA-ET200SP | <br><br>FLK 14/EZ-DR/...KONFEK<br>0.5 m <a href="#">2288901</a><br>1.0 m <a href="#">2288914</a><br>1.5 m <a href="#">2288927</a><br>2.0 m <a href="#">2288930</a><br>3.0 m <a href="#">2288956</a><br>4.0 m <a href="#">2288972</a><br>6.0 m <a href="#">2290863</a><br>8.0 m <a href="#">2299563</a><br>10.0 m <a href="#">2299576</a><br>Variable lengths <a href="#">2295059/14U/C23/...</a> |
| <b>Analog input modules</b><br>6ES7135-6FB00-0BA1<br>6ES7135-6GB00-0BA1<br>6ES7135-6HB00-0CA1<br>6ES7135-6HB00-0DA1<br>6ES7135-6HD00-0BA1                                                                                                                                                                                                                             | A      |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

| Termination boards with screw (SC) or Push-in (PT) connections                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                    | V8 adapters for relays                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                     |
| <b>Termination board with 20 connection terminal blocks (1 - 20):</b><br>VIP-2/PT/FLK20 <a href="#">2903790</a> (PT)<br>VIP-2/SC/FLK20 <a href="#">2315049</a> (SC)                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Termination board with 20 connection terminal blocks (1 - 20):</b><br>VFC-PT/FLK20 <a href="#">1278794</a> (PT)<br><b>Termination board with Siemens SIMATIC ET 200SP-specific marking</b><br>VFC-PT/FLK20/ET200SP <a href="#">1278788</a> (PT) |                                                                                                                                                                                                                                                                                                                                                     |
| or 2 x PLC-V8 adapter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                  |                                                                                                                                                                                                                                                                 |
| <b>Termination boards for 8 DI or 8 DO:</b><br>VIP-2/PT/FLK14/PLC <a href="#">2903801</a> (PT)<br>VIP-2/SC/FLK14/PLC <a href="#">2315214</a> (SC)<br><b>2-conductor connection for 8 DI:</b><br>VIP-2/PT/FLK14/8P/PLC <a href="#">2904284</a> (PT)<br>VIP-2/SC/FLK14/8P/PLC <a href="#">2322294</a> (SC)<br><b>2-conductor connection for 8 DO:</b><br>VIP-2/PT/FLK14/8M/PLC <a href="#">2904283</a> (PT)<br>VIP-2/SC/FLK14/8M/PLC <a href="#">2322281</a> (SC)<br><b>3-conductor connection for 8 DI or 8 DO:</b><br>VIP-3/PT/FLK14/8IM/PLC <a href="#">2904282</a> (PT)<br>VIP-3/SC/FLK14/8IM/PLC <a href="#">2322278</a> (SC) | <b>Termination boards with 3-conductor connection technology for 8 DI or 8 DO</b><br>VFC-PT/FLK14/PLC <a href="#">1278798</a> (PT)                                                                                                                 | <b>V8 adapters for PLC-INTERFACE</b><br><b>V8 adapter for 8 DO, 6.2 mm relay</b> PLC-V8/FLK14/OUT <a href="#">2295554</a><br><b>V8 adapter for 8 DO, 14 mm relay</b> PLC-V8L/FLK14/OUT <a href="#">2299660</a><br><b>V8 adapter for 8 DI, 6.2 mm relay</b> PLC-V8/FLK14/IN <a href="#">2296553</a><br><br>For selection of relays, see page 20 / 21 |
| or 1 x V8 adapter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                 |                                                                                                                                                                                                                                                                |
| <b>Termination boards for 8 DI or 8 DO:</b><br>VIP-2/PT/FLK14/PLC <a href="#">2903801</a> (PT)<br>VIP-2/SC/FLK14/PLC <a href="#">2315214</a> (SC)<br><b>2-conductor connection for 8 DI:</b><br>VIP-2/PT/FLK14/8P/PLC <a href="#">2904284</a> (PT)<br>VIP-2/SC/FLK14/8P/PLC <a href="#">2322294</a> (SC)<br><b>2-conductor connection for 8 DO:</b><br>VIP-2/PT/FLK14/8M/PLC <a href="#">2904283</a> (PT)<br>VIP-2/SC/FLK14/8M/PLC <a href="#">2322281</a> (SC)<br><b>3-conductor connection for 8 DI or 8 DO:</b><br>VIP-3/PT/FLK14/8IM/PLC <a href="#">2904282</a> (PT)<br>VIP-3/SC/FLK14/8IM/PLC <a href="#">2322278</a> (SC) | <b>Termination boards with 3-conductor connection technology for 8 DI or 8 DO</b><br>VFC-PT/FLK14/PLC <a href="#">1278798</a> (PT)                                                                                                                 | <b>V8 adapters for PLC-INTERFACE</b><br><b>V8 adapter for 8 DO, 6.2 mm relay</b> PLC-V8/FLK14/OUT <a href="#">2295554</a><br><b>V8 adapter for 8 DO, 14 mm relay</b> PLC-V8L/FLK14/OUT <a href="#">2299660</a><br><b>V8 adapter for 8 DI, 6.2 mm relay</b> PLC-V8/FLK14/IN <a href="#">2296553</a><br><br>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 |             |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                |
|                                                                                                   |             | <b>Connection of I/O modules in row A: 1 x front adapter, 1 x system cable, 1 x termination board</b>                                                                                                                           |                                                                                                                                                                                                                                                                                                |
| <b>Digital input modules</b><br>DI 16X24VDC<br>6DL1131-6BH00-0PH1<br>DI 16X24VDC HA               | A<br>B      |                                                                                                                                                |                                                                                                                                                                                                             |
| <b>Digital input modules</b><br>DI 16XNAMUR HA<br>6DL1131-6TH00-0PH1                              | A           | <b>FLKM-PA-D37/ETHA</b> 1076338<br><br><b>Note:</b><br>The front adapter is plugged into the M1/H1 terminal blocks.<br><br>A front adapter is not required for the H0 terminal block with D-SUB connector (6DL1193-6TC00-0DH0). | <b>PVC</b><br>CABLE-D37SUB/B/B/...<br>1.0 m    2305509<br>2.0 m    2305512<br>3.0 m    2305525<br>4.0 m    2900759<br>6.0 m    2900760<br>8.0 m    2900761<br>10.0 m    2900762<br>Variable lengths<br>2302421/37S/C44/...                                                                     |
| <b>Digital input modules</b><br>DI 32X24VDC HA<br>6DL1131-6BL00-0PH1                              | A<br>B<br>C |                                                                                                                                                                                                                                 | <b>Halogen-free</b><br>CABLE-D37SUB/B/B/HF/S/...M<br>1.0 m    2908516<br>2.0 m    2908517<br>3.0 m    2908518<br>4.0 m    2908519<br>6.0 m    2908520<br>8.0 m    2908521<br>10.0 m    2908522<br>Variable lengths<br>1075563/...                                                              |
|                                                                                                   |             | <b>Connection of I/O modules in row B: 1 x front adapter, 1 x system cable, 2 (4) x termination board</b>                                                                                                                       |                                                                                                                                                                                                                                                                                                |
| <b>Digital output modules</b><br>DQ 16X24VDC/0,5A HA<br>6DL1132-6BH00-0PH1                        | A<br>B      |                                                                                                                                                |                                                                                                                                                                                                             |
| <b>Digital output modules</b><br>DQ 32X24VDC/0,5A HA<br>6DL1132-6BL00-0PH1                        | A<br>B<br>C | <b>FLKM-PA-D37/ETHA</b> 1076338<br><br><b>Note:</b><br>The front adapter is plugged into the M1/H1 terminal blocks.<br><br>A front adapter is not required for the H0 terminal block with D-SUB connector (6DL1193-6TC00-0DH0). | <b>32-channel, PVC</b><br>CABLE-D37F/4XD15F/...M/ETHA<br>1.0 m    1119198<br>2.0 m    1119200<br>4.0 m    1119202<br>6.0 m    1119204<br><br><b>32-channel, halogen-free</b><br>CABLE-D37F/4XD15F/HF/...M/ETHA<br>1.0 m    1331995<br>2.0 m    1331992<br>4.0 m    1331987<br>6.0 m    1331982 |
| <b>Analog HART input modules</b><br>AI 16XI 2-Wire HART HA<br>6DL1134-6TH00-0PH1                  | A           |                                                                                                                                                                                                                                 | <b>16-channel, PVC</b><br>CABLE-D37F/2XD15F/...M/ETHA<br>1.0 m    1258787<br>2.0 m    1258793<br>4.0 m    1258819<br>6.0 m    1258820<br><br><b>16-channel, halogen-free</b><br>CABLE-D37F/2XD15F/HF/...M/ETHA<br>1.0 m    1276251<br>2.0 m    1276385<br>4.0 m    1276387<br>6.0 m    1276388 |
|                                                                                                   |             | <b>Connection of I/O modules in row C: 1 x front adapter, 1 x system cable, 1 x termination board</b>                                                                                                                           |                                                                                                                                                                                                                                                                                                |
| <b>Analog input modules</b><br>AI 16XTC/8XRTD 2-/3-/4-Wire HA<br>6DL1134-6JH00-0PH1               | A           |                                                                                                                                              |                                                                                                                                                                                                           |
| <b>Analog output modules</b><br>AQ 8XI HART HA<br>6DL1135-6TF00-0PH1                              | A           | <b>FLKM-PA-D37/ETHA</b> 1076338<br><br><b>Note:</b><br>The front adapter is plugged into the M1/H1 terminal blocks.<br><br>A front adapter is not required for the H0 terminal block with D-SUB connector (6DL1193-6TC00-0DH0). | <b>CABLE-D37F/FLK50/...M/ETHA</b><br>1.0 m    1210707<br>2.0 m    1210706<br>3.0 m    1210708<br>4.0 m    1222442<br>6.0 m    1222438<br>8.0 m    1222447<br>10.0 m    1222255                                                                                                                 |
| <b>Input/output modules</b><br>AI-DI16/DQ16X24VDC HART<br>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 |                                                                                       |                |                                                                                                                                                                                                                          |                                                                                     |                                                                                                                                                                                                                          |
| Digital input modules<br>DI 16X24VDC<br>6ES7521-1BH10-0AA0                                        | C                                                                                     | A              | Connection of I/O modules in row A: 1 x front adapter, 1 x system cable, 1 x termination board                                                                                                                           |                                                                                     |                                                                                                                                                                                                                          |
|                                                                                                   |                                                                                       |                |                                                                                                                                         |  |                                                                                                                                                                                                                          |
| FLKM 50-PA/25/S7-1500                                                                             | 1089346                                                                               |                | FLK 50/EZ-DR/...KONFEK<br>0.5 m 2289065<br>1.0 m 2289078<br>1.5 m 2289081<br>2.0 m 2289094<br>3.0 m 2289117<br>4.0 m 2289133<br>6.0 m 2289609<br>8.0 m 2289641<br>10.0 m 2289683<br>Variable lengths 2295059/50U/C38/... |                                                                                     |                                                                                                                                                                                                                          |
| Connection of I/O modules in row B: 1 x front adapter, 1 x system cable, 4 x termination board    |                                                                                       |                |                                                                                                                                                                                                                          |                                                                                     |                                                                                                                                                                                                                          |
|                 |   |                |                                                                                                                                                                                                                          |                                                                                     |                                                                                                                                                                                                                          |
| FLKM 50-PA/25/S7-1500                                                                             | 1089346                                                                               |                | FLK 50/4X14/EZ-DR/ .../KONFEK<br>0.5 m 2296689<br>1.0 m 2296692<br>1.5 m 2296702<br>2.0 m 2296715<br>3.0 m 2296728<br>4.0 m 2296731<br>6.0 m 2296744<br>8.0 m 2296757<br>10.0 m 2296773<br>Variable lengths 2302405/...  |                                                                                     |                                                                                                                                                                                                                          |
| Digital output modules<br>DQ 16X24VDC<br>6ES7522-1BH10-0AA0                                       | C                                                                                     | B              | Connection of I/O modules in row C: 1 x front adapter, 2 x system cable, 2 x termination board                                                                                                                           |                                                                                     |                                                                                                                                                                                                                          |
|                |  |                |                                                                                                                                                                                                                          |                                                                                     |                                                                                                                                                                                                                          |
| Digital output modules<br>DQ 32X24VDC<br>6ES7522-1BL10-0AA0                                       | A<br>B                                                                                | C              | FLKM 2X14-PA/25/S7-1500                                                                                                                                                                                                  | 1089345                                                                             | FLK 14/EZ-DR/...KONFEK<br>0.5 m 2288901<br>1.0 m 2288914<br>1.5 m 2288927<br>2.0 m 2288930<br>3.0 m 2288956<br>4.0 m 2288972<br>6.0 m 2290863<br>8.0 m 2299563<br>10.0 m 2299576<br>Variable lengths 2295059/14U/C23/... |
| Digital input and output modules<br>DI 16X24VDC/<br>DQ 16X24VDC<br>6ES7523-1BL00-0AA0             | A<br>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  
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

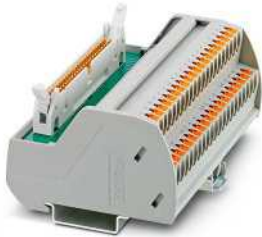
V8 adapter for 8 DI, 6.2 mm relay PLC-V8/FLK14/IN 2296553

For selection of relays, see page 20 / 21

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

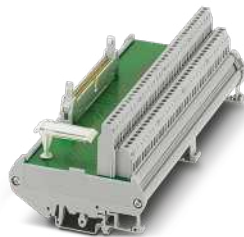
| Siemens I/O modules                                                                                                    |        | Front adapters                                                                                 |                                                                                                | System cables                                                                                    |                                                                                                                                                                                                                         |                                                                                                                                                                                                           |
|------------------------------------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div><div></div>Web code: #0007</div> |        | Connection of I/O modules in row A: 1 x front adapter, 1 x system cable, 1 x termination board |                                                                                                |                                                                                                  |                                                                                                                                                                                                                         |                                                                                                                                                                                                           |
| <div>Digital input modules</div> <div>DI 16X24VDC</div> <div>6ES7521-1BH00-0AB0</div> <div>6ES7521-1BH50-0AA0</div>    | B      | A                                                                                              | <div></div>   | <div></div>   |                                                                                                                                                                                                                         |                                                                                                                                                                                                           |
|                                                                                                                        |        |                                                                                                | <div>FLKM 50-PA/PT/DIO/S7-150</div> <div>FLKM 50-PA/SC/DIO/S7-150</div>                        | <div>2907384 (PT)</div> <div>2907383 (SC)</div>                                                  | <div>FLK 50/EZ-DR/...KONFEK</div> <div>0.5 m</div> <div>1.0 m</div> <div>1.5 m</div> <div>2.0 m</div> <div>3.0 m</div> <div>4.0 m</div> <div>6.0 m</div> <div>8.0 m</div> <div>10.0 m</div> <div>Variable lengths</div> | <div>2289065</div> <div>2289078</div> <div>2289081</div> <div>2289094</div> <div>2289117</div> <div>2289133</div> <div>2289609</div> <div>2289641</div> <div>2289683</div> <div>2295059/50U/C38/...</div> |
| <div>Digital input modules</div> <div>DI 32X24VDC</div> <div>6ES7521-1BL00-0AB0</div>                                  | A<br>B | B                                                                                              | <div></div> | <div></div> |                                                                                                                                                                                                                         |                                                                                                                                                                                                           |
| <div>Digital output modules</div> <div>DQ 16X24VDC</div> <div>6ES7522-1BH00-0AB0</div> <div>6ES7522-1BH01-0AB0</div>   | B      |                                                                                                |                                                                                                |                                                                                                  |                                                                                                                                                                                                                         |                                                                                                                                                                                                           |
| <div>Digital output modules</div> <div>DQ 32X24VDC</div> <div>6ES7522-1BL00-0AB0</div> <div>6ES7522-1BL01-0AB0</div>   | A<br>B |                                                                                                |                                                                                                |                                                                                                  |                                                                                                                                                                                                                         |                                                                                                                                                                                                           |
| Connection of I/O modules in row B: 1 x front adapter, 2 (4) x system cable, 2 (4) x termination board                 |        |                                                                                                |                                                                                                |                                                                                                  |                                                                                                                                                                                                                         |                                                                                                                                                                                                           |
|                                                                                                                        |        |                                                                                                | <div>FLKM 4X14-PA/PT/DIO/S7-1500</div> <div>FLKM 4X14-PA/SC/DIO/S7-1500</div>                  | <div>2907382 (PT)</div> <div>2907381 (SC)</div>                                                  | <div>FLK 14/EZ-DR/...KONFEK</div> <div>0.5 m</div> <div>1.0 m</div> <div>1.5 m</div> <div>2.0 m</div> <div>3.0 m</div> <div>4.0 m</div> <div>6.0 m</div> <div>8.0 m</div> <div>10.0 m</div> <div>Variable lengths</div> | <div>2288901</div> <div>2288914</div> <div>2288927</div> <div>2288930</div> <div>2288956</div> <div>2288972</div> <div>2290863</div> <div>2299563</div> <div>2299576</div> <div>2295059/14U/C23/...</div> |

## 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 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**

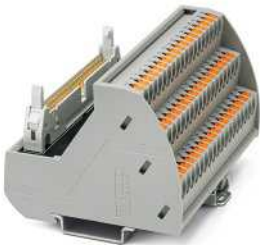
PLC-V8/FLK14/IN 2296553

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 |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------|---------------|--|
| <div><div><div>i</div></div> Web code: #0007</div>                                                                                                                                                                  |                           | Connection of I/O modules in row A: 1 x front adapter, 1 x system cable, 1 x termination board         |                                   |               |  |
| <div>Analog input modules</div> <div>6ES7531-7KF00-0AB0</div> <div>6ES7531-7MH00-0AB0</div> <div>6ES7531-7NF00-0AB0</div> <div>6ES7531-7NF10-0AB0</div> <div>6ES7531-7PF00-0AB0</div> <div>6ES7531-7QF00-0AB0</div> | <div>A</div> <div>B</div> | <div><div><div></div></div></div>                                                                      | <div><div><div></div></div></div> |               |  |
|                                                                                                                                                                                                                     |                           |                                                                                                        |                                   |               |  |
| <div>Analog output modules</div> <div>6ES7532-5ND00-0AB0</div> <div>6ES7532-5HF00-0AB0</div> <div>6ES7532-5HD00-0AB0</div>                                                                                          | <div>A</div> <div>B</div> | <div><div><div></div></div></div>                                                                      | <div><div><div></div></div></div> |               |  |
|                                                                                                                                                                                                                     |                           |                                                                                                        |                                   |               |  |
|                                                                                                                                                                                                                     |                           | Connection of I/O modules in row B: 1 x front adapter, 2 (4) x system cable, 1 (2) x termination board |                                   |               |  |
|                                                                                                                                                                                                                     |                           | <div><div><div></div></div></div>                                                                      | <div><div><div></div></div></div> |               |  |
|                                                                                                                                                                                                                     |                           |                                                                                                        |                                   |               |  |
|                                                                                                                                                                                                                     | <div>B</div>              | <div><div><div></div></div></div>                                                                      | <div><div><div></div></div></div> |               |  |
|                                                                                                                                                                                                                     |                           |                                                                                                        |                                   |               |  |

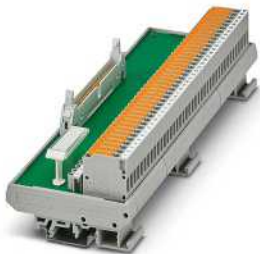
Termination boards with screw (SC) or Push-in (PT) connections



**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)



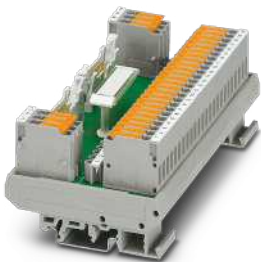
**Termination board with S7-1500-specific marking and connections for external power distribution**  
VIP-3/PT/FLK50/AN/2P/S7-1500      2908499 (PT)  
VIP-3/SC/FLK50/AN/2P/S7-1500      2908497 (SC)



**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                                                                                                  |        |
|---------------------------------------------------------------------------------------------------------------------|--------|
|  Web code: #0007                   |        |
| <b>Digital input modules</b><br>DI32<br>ADV151                                                                      | A<br>C |
| <b>Digital input modules</b><br>DI 64<br>ADV161                                                                     | A<br>C |
| <b>Digital output modules</b><br>DO 32<br>ADV551                                                                    | A<br>C |
| <b>Digital output modules</b><br>DO 64<br>ADV561                                                                    | A<br>C |
| <b>Analog input modules</b><br>AAI 135<br>AAI 141<br>AAI 143<br>AAR 181<br>AAT 141<br>AAV 141<br>AAV 142<br>AAI 135 | B      |
| <b>Analog output modules</b><br>AAB 841<br>AAI 543<br>AAI 835<br>AAV 542                                            | B      |

| System cables                                                                              |                                                                                      |                                                                         |                                                                                       |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Connection of I/O modules in row B: 1 (2) x system cable, 1 (2) x termination board        |                                                                                      |                                                                         |                                                                                       |
| A                                                                                          |     |                                                                         |    |
|                                                                                            | <b>PVC for ADV151, ADV551</b><br>FLK 50-PA/EZ-DR/KS/.../YUC                          | <b>Halogen-free for ADV151, ADV551</b><br>FLK 50-PA/EZ-DR/HF/KS/.../YUC | <b>PVC for ADV161, ADV561</b><br>FLK-MIL-50/EZ-DR/KS/.../YCS                          |
|                                                                                            | 2.0 m 2314299                                                                        | 2.0 m 2904740                                                           | 2.0 m 2314590                                                                         |
|                                                                                            | 3.0 m 2314309                                                                        | 3.0 m 2904741                                                           | 3.0 m 2314781                                                                         |
|                                                                                            | 4.0 m 2314312                                                                        | 4.0 m 2904742                                                           | 4.0 m 2314794                                                                         |
|                                                                                            | 6.0 m 2314927                                                                        | 6.0 m 2904743                                                           | 10.0 m 2314804                                                                        |
|                                                                                            | 8.0 m 2314930                                                                        | 8.0 m 2904745                                                           | 15.0 m 2314817                                                                        |
|                                                                                            | 10.0 m 2314325                                                                       | 10.0 m 2904637                                                          | 20.0 m 2314820                                                                        |
|                                                                                            | 15.0 m 2314338                                                                       | 15.0 m 2904638                                                          | 30.0 m 2901018                                                                        |
|                                                                                            | 20.0 m 2314503                                                                       | 20.0 m 2904487                                                          |                                                                                       |
|                                                                                            | 25.0 m 2314516                                                                       | 25.0 m 2904639                                                          |                                                                                       |
|                                                                                            | 30.0 m 2314529                                                                       | 30.0 m 2904640                                                          |                                                                                       |
| Connection of I/O modules in row B: 1 x system cable, 1 x termination board                |                                                                                      |                                                                         |                                                                                       |
| B                                                                                          |  |                                                                         |                                                                                       |
|                                                                                            | <b>PVC</b><br>FLK 40-PA/EZ-DR/KS/.../YUC                                             | <b>Halogen-free</b><br>FLK 40-PA/EZ-DR/HF/KS/.../YUC                    |                                                                                       |
|                                                                                            | 2.0 m 2314341                                                                        | 2.0 m 2904748                                                           |                                                                                       |
|                                                                                            | 3.0 m 2314354                                                                        | 3.0 m 2904749                                                           |                                                                                       |
|                                                                                            | 4.0 m 2314367                                                                        | 4.0 m 2904750                                                           |                                                                                       |
|                                                                                            | 6.0 m 2314943                                                                        | 6.0 m 2904751                                                           |                                                                                       |
|                                                                                            | 8.0 m 2314956                                                                        | 8.0 m 2904753                                                           |                                                                                       |
|                                                                                            | 10.0 m 2314370                                                                       | 10.0 m 2904646                                                          |                                                                                       |
|                                                                                            | 15.0 m 2314383                                                                       | 15.0 m 2904647                                                          |                                                                                       |
|                                                                                            | 20.0 m 2314532                                                                       | 20.0 m 2904488                                                          |                                                                                       |
|                                                                                            | 25.0 m 2314545                                                                       | 25.0 m 2904648                                                          |                                                                                       |
|                                                                                            | 30.0 m 2314558                                                                       | 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                                                                                          |   |                                                                         |  |
|                                                                                            | <b>PVC for ADV151, ADV 551</b><br>CABLE-50/4FLK14/.../YUC:                           | <b>PVC for ADV161, ADV561</b><br>FLKMIL-50/4FLK14/EZ-DR/.../CS          |                                                                                       |
|                                                                                            | 2.0 m 2314655                                                                        | 2.0 m 2306304                                                           |                                                                                       |
|                                                                                            | 3.0 m 2314668                                                                        | 3.0 m 2306964                                                           |                                                                                       |
|                                                                                            | 4.0 m 2314671                                                                        | 5.0 m 2306977                                                           |                                                                                       |
|                                                                                            | 6.0 m 2318978                                                                        | 10.0 m 2306980                                                          |                                                                                       |
|                                                                                            | 10.0 m 2314684                                                                       | 15.0 m 2301503                                                          |                                                                                       |
|                                                                                            | 15.0 m 2322773                                                                       | 20.0 m 2301914                                                          |                                                                                       |
|                                                                                            | 20.0 m 2314778                                                                       |                                                                         |                                                                                       |

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

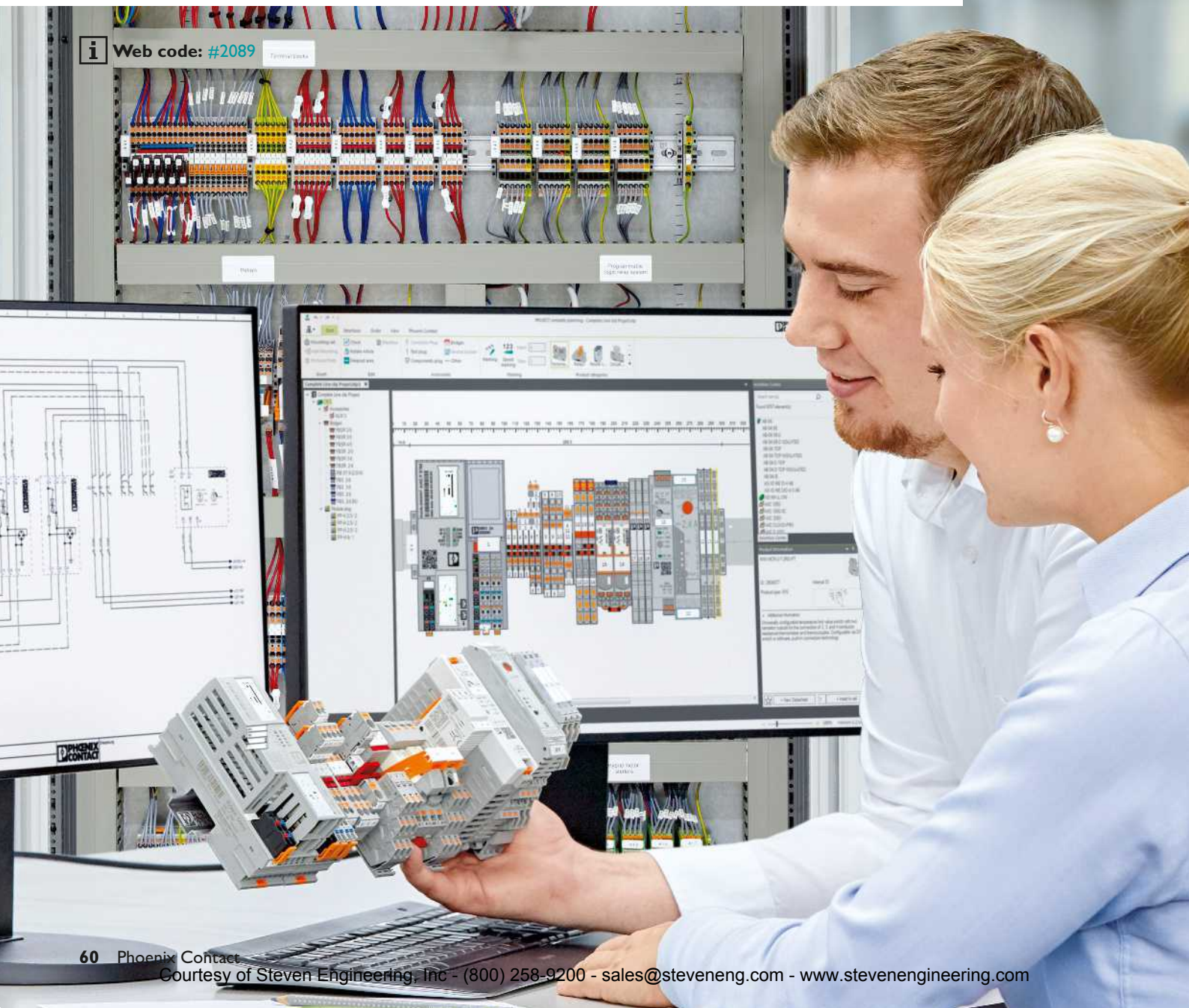


**V8 adapters for PLC-INTERFACE**  
**Adapter for 8 DO, 14 mm relay**  
 PLC-V8L/FLK14/OUT/M 2304306

For selection of relays, see page 20/21

# COMPLETE line – the comprehensive solution for the control cabinet

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.



## 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

Discover the extensive COMPLETE line product portfolio and find out more about COMPLETE line and the comprehensive solutions for your control cabinet.

Visit our website:  
[phoenixcontact.com/completeline](https://phoenixcontact.com/completeline)

# Worldwide service and support: We are there for you

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.



### Individual set solutions

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.



### Global approvals and certificates

Our numerous certificates are proof that you can put your full trust in our products, because quality is essential. We strive to satisfy this requirement in every respect. For this reason, our systems, processes, and products are tested and certified several times over.



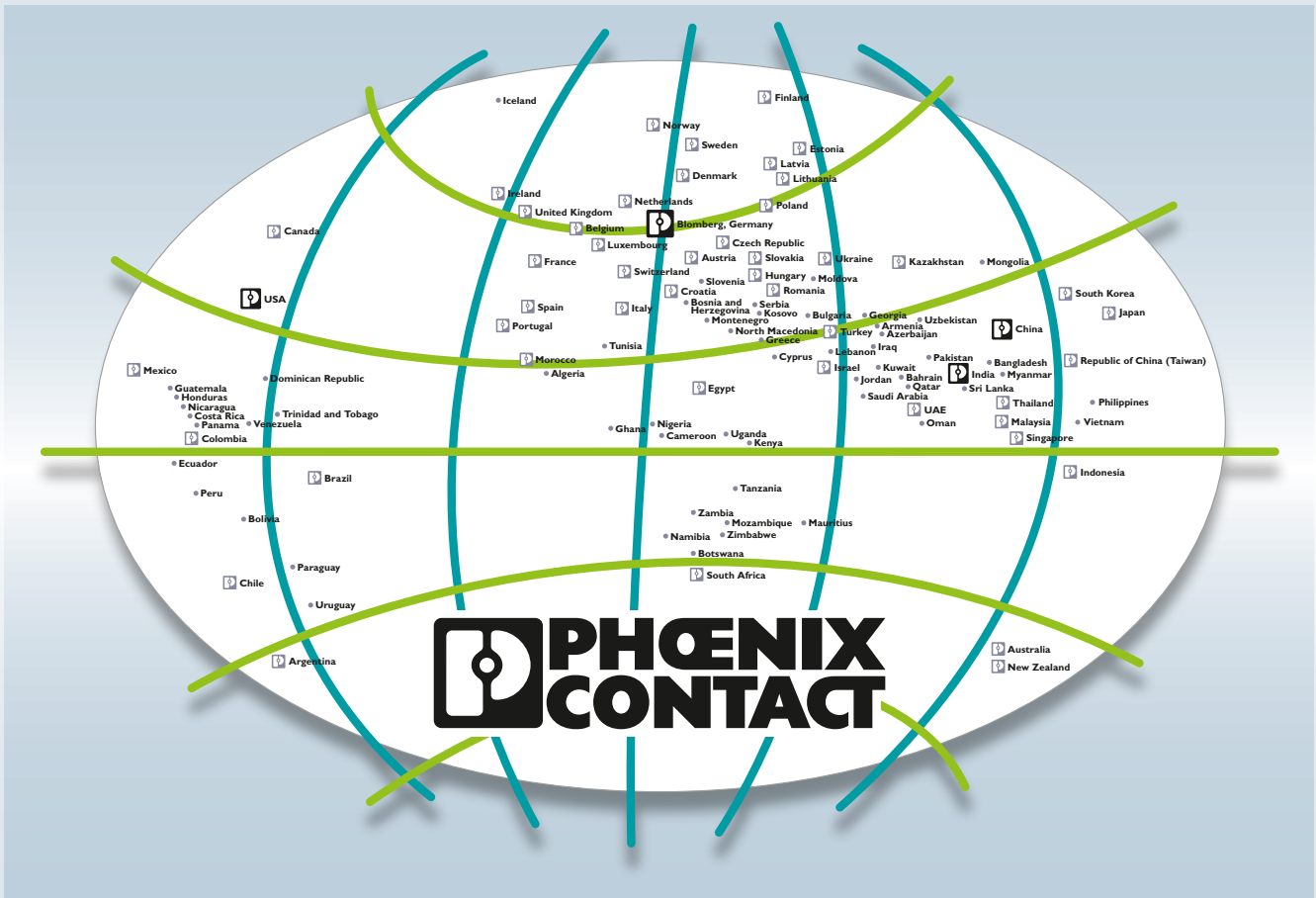
### Comprehensive after-sales services

We are there for you – not just before your purchase, but also after with our comprehensive after-sales services. This includes our repair service, exchange service, and replacement parts service.



### Comprehensive training program

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



## Open communication with customers and partners worldwide

Phoenix Contact is a global market leader based in Germany. We are known for producing future-oriented products and solutions for the electrification, networking, and automation of all sectors of the economy and infrastructure. With a global network reaching across more than 100 countries with over 22,000 employees, we maintain close relationships with our customers, something we believe is essential for our common success.

Our wide range of innovative products makes it easy for our customers to implement the latest technology in a variety of applications and industries. This especially applies to the target markets of energy, infrastructure, industry, and mobility.

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