

# CABLE-50/4FLK14/50,0M/YUC - Front adapter

2314765

<https://www.phoenixcontact.com/us/products/2314765>



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Cast Yokogawa front adapter with attached round cable and an injection-molded 50-pos. socket strip for the connection of 4 x 8 channels on the field side. Cable length: 50.0 m

## Your advantages

- Four 14-pos. connectors on the module side for connecting four 8-channel VARIOFACE modules of the system cabling
- Lateral cable outlet of the I/O module

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2314765       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Product key                          | DK222N        |
| GTIN                                 | 4046356169974 |
| Weight per piece (including packing) | 10,040 g      |
| Weight per piece (excluding packing) | 9,672 g       |
| Country of origin                    | DE            |

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## Technical data

### Product properties

|              |               |
|--------------|---------------|
| Product type | Front adapter |
|--------------|---------------|

### Electrical properties

|                        |                       |
|------------------------|-----------------------|
| Operating voltage (DC) | ≤ 30 V DC             |
| Nominal operating mode | 100% operating factor |
| Current (Per path)     | ≤ 500 mA (uncoiled)   |

Supported controller YOKOGAWA CS3000 CentumVP

|                   |        |
|-------------------|--------|
| Suitable I/O card | ADV151 |
|                   | ADV551 |

Supported controller YOKOGAWA STARDOM

|                   |         |
|-------------------|---------|
| Suitable I/O card | NFDV151 |
|                   | NFDV551 |

### Connection data

#### Connection 1

|                                  |                                |
|----------------------------------|--------------------------------|
| Connection in acc. with standard | IEC 60603-13 (in compliance)   |
| Connection method                | Yokogawa, I/O cards compatible |
| Number of connections            | 1                              |
| Number of positions              | 50                             |
| Tightening torque                | 0.5 Nm (Screw connection)      |
| Insertion/withdrawal cycles      | > 50                           |
| Pitch                            | 2.54 mm                        |

#### Connection 2

|                                  |                              |
|----------------------------------|------------------------------|
| Connection in acc. with standard | IEC 60603-13 (in compliance) |
| Connection method                | IDC/FLK socket strip         |
| Number of connections            | 4                            |
| Number of positions              | 14                           |
| Insertion/withdrawal cycles      | > 50                         |
| Pitch                            | 2.54 mm                      |

### Dimensions

#### Cable

|        |      |
|--------|------|
| Length | 50 m |
|--------|------|

### Cable/line

#### 50X0.14 [PVC]

|                     |           |
|---------------------|-----------|
| UL AWM Style        | 2464/1061 |
| Number of positions | 50        |

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|   |  |
|---|--|
| Shielded                                      | yes  |
| Cable type                                    | 50X0.14 [PVC]  |
| Conductor type                                | Assembled shielded round cable   |
| Conductor structure signal line               | 7x 0.16 mm   |
| AWG signal line                               | 26   |
| Conductor cross section                       | 50x 0.14 mm <sup>2</sup>   |
| Wire diameter incl. insulation                | 1 mm ±0.03 mm  |
| External cable diameter                       | 11.00 mm ±0.3 mm   |
| Outer sheath, material                        | Semi-rigid PVC   |
| External sheath, color                        | gray   |
| Conductor material                            | Tin-plated Cu litz wires   |
| Cable resistance                              | ≤ 145 Ω/km (at 20 °C)  |
| Insulation resistance                         | ≥ 20 MΩ*km (20 °C)   |
| Smallest bending radius, fixed installation   | 114 mm   |
| Smallest bending radius, movable installation | 205 mm   |
| Dynamic load capacity (bending)               | Max. bending cycles: 5000 (at a radius of ≥ 18x outside diameter)  |
| Halogen-free                                  | no   |
| Flame resistance                              | IEC 60332-1-2 (raw cable)<br>VDE 0842, Part 332-1-2 (raw cable)<br>IEC 60332-3-22 (raw cable)<br>UL VW-1<br>CSA FT-1 |
| Resistance to oil                             | can withstand occasional splashes (raw cable)  |

## Environmental and real-life conditions

### Ambient conditions

|   |  |
|---|--|
| Degree of protection                                    | IP20                                     |
| Degree of protection (Installation location)            | ≥ IP54 (Installation location)           |
| Ambient temperature (operation) (fixed installation)    | -40 °C ... 70 °C (fixed installation)    |
| Ambient temperature (operation) (flexible installation) | -10 °C ... 70 °C (flexible installation) |
| Ambient temperature (storage/transport)                 | -40 °C ... 80 °C                         |
| Altitude  | ≤ 2000 m                                 |

## Approvals

### UKCA

|             |                |
|-------------|----------------|
| Certificate | UKCA-compliant |
|-------------|----------------|

## Notes

|                    |  |
|--------------------|--|
| Notes on operation | For proper use, the specifications of the installation directive (see Downloads) must be observed. For applications or use with third-party products, the specifications, and the safety and warning instructions of the respective third-party manufacturer must also be met. |
|--------------------|--|

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## Drawings

Connection diagram

| 50-pos.<br>connector to<br>the I/O card | 4 x 14-pos.<br>connector to<br>the module | Wire color       |
|---|---|------------------|
| 1                                       | Byte 0                                    | 1 black          |
| 3                                       |   | 2 brown          |
| 5                                       |   | 3 red            |
| 7                                       |   | 4 orange         |
| 9                                       |   | 5 yellow         |
| 11                                      |   | 6 green          |
| 13                                      |   | 7 blue           |
| 15                                      |   | 8 Violet         |
| 41                                      |   | 9 gray           |
| 39                                      |   | 10 White         |
| 17                                      | Byte 1                                    | 1 white-black    |
| 19                                      |   | 2 white-brown    |
| 21                                      |   | 3 white-red      |
| 23                                      |   | 4 white-orange   |
| 25                                      |   | 5 White-yellow   |
| 27                                      |   | 6 white-green    |
| 29                                      |   | 7 white-blue     |
| 31                                      |   | 8 white-violet   |
| 43                                      |   | 9 white-gray     |
| 37                                      |   | 10 brown-black   |
| 2                                       | Byte 2                                    | 1 brown-red      |
| 4                                       |   | 2 brown-orange   |
| 6                                       |   | 3 brown-yellow   |
| 8                                       |   | 4 brown-green    |
| 10                                      |   | 5 brown-blue     |
| 12                                      |   | 6 brown-violet   |
| 14                                      |   | 7 brown-gray     |
| 16                                      |   | 8 brown-white    |
| 42                                      |   | 9 green-black    |
| 36                                      |   | 10 green-brown   |
| 18                                      | Byte 3                                    | 1 green-red      |
| 20                                      |   | 2 green-orange   |
| 22                                      |   | 3 green-blue     |
| 24                                      |   | 4 green-violet   |
| 26                                      |   | 5 green-gray     |
| 28                                      |   | 6 green-white    |
| 30                                      |   | 7 yellow-black   |
| 32                                      |   | 8 yellow-brown   |
| 44                                      |   | 9 yellow-red     |
| 34                                      |   | 10 yellow-orange |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27242292 |
|-------------|----------|

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002584 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 32151600 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### China RoHS

|  |  |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|  | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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