

# FLK 50/4X14/EZ-DR/ 100/KONFEK - Cable



2296692

<https://www.phoenixcontact.com/us/products/2296692>

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Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (4x 14-position); cable length: 1 m



## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 2296692             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | C421                |
| Product key                          | CK2215              |
| Catalog page                         | Page 537 (C-5-2019) |
| GTIN                                 | 4017918593773       |
| Weight per piece (including packing) | 249.7 g             |
| Weight per piece (excluding packing) | 249.7 g             |
| Customs tariff number                | 85444290            |
| Country of origin                    | DE                  |

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## Technical data

### Product properties

|              |              |
|--------------|--------------|
| Product type | System cable |
|--------------|--------------|

### Environmental and real-life conditions

#### Ambient conditions

|  |   |
|--|---|
| Degree of protection                         | IP00  |
| Degree of protection (Installation location) | ≥ IP54 (Installation location)  |
| Ambient temperature (operation)              | -40 °C ... 70 °C (fixed installation)<br>-10 °C ... 70 °C (flexible installation) |
| Ambient temperature (storage/transport)      | -40 °C ... 80 °C  |
| Altitude                                     | ≤ 2000 m  |

### Electrical properties

|                          |                                  |
|--------------------------|----------------------------------|
| Operating voltage (AC)   | ≤ 30 V AC                        |
| Operating voltage (DC)   | ≤ 60 V DC                        |
| Nominal operating mode   | 100% operating factor            |
| Current (Per path, 50°C) | ≤ 1 A (Uncoiled, see derating)   |
| Current (Per path, 70°C) | ≤ 0.6 A (Uncoiled, see derating) |

#### Supported controller SIEMENS S7-1500

|                   |                    |
|-------------------|--------------------|
| Suitable I/O card | 6ES7521-1BL10-0AA0 |
|                   | 6ES7522-1BL10-0AA0 |
|                   | 6ES7523-1BL00-0AA0 |

#### Supported controller SIEMENS S7-400

|                   |                    |
|-------------------|--------------------|
| Suitable I/O card | 6ES7421-1BL01-0AA0 |
|                   | 6ES7422-1BL00-0AA0 |
|                   | 6ES7422-7BL00-0AB0 |

#### Supported controller ALLEN-BRADLEY ControlLogix

|                   |           |
|-------------------|-----------|
| Suitable I/O card | 1756-IB32 |
|                   | 1756-OB32 |

#### Supported controller ALLEN-BRADLEY PLC 5

|                   |          |
|-------------------|----------|
| Suitable I/O card | 1771 IBN |
|                   | 1771 OBN |

#### Supported controller HONEYWELL Experion PKS C200

|                   |            |
|-------------------|------------|
| Suitable I/O card | TC-IDD 321 |
|                   | TC-ODD 321 |

#### Supported controller SCHNEIDER ELECTRIC Modicon TSX QUANTUM

|                   |         |
|-------------------|---------|
| Suitable I/O card | DDI 353 |
|                   | DDI 853 |

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|  |         |
|--|---------|
|  | DAI 353 |
|  | DAI 453 |
|  | DDO 353 |

Supported controller SIEMENS S7-300 / ET 200 M

|                   |                    |
|-------------------|--------------------|
| Suitable I/O card | CPU 313C-2DP       |
|                   | CPU 314C-2PtP      |
|                   | 6ES7321-1BL00-0AA0 |
|                   | 6ES7322-1BL00-0AA0 |
|                   | 6ES7323-1BL00-0AA0 |
|                   | 6ES7331-7NF00-0AB0 |
|                   | 6ES7331-7PF01-0AB0 |
|                   | 6ES7331-7PF11-0AB0 |
|                   | 6ES7350-2AH01-0AE0 |
|                   | 6ES7357-4AH01-0AE0 |
|                   | CPU 314C-2DP       |
|                   | CPU 313C           |
|                   | CPU 313C-2PtP      |

## Cable/line

|              |     |
|--------------|-----|
| Cable length | 1 m |
|--------------|-----|

### 14X0.14 [PVC]

|   |  |
|---|--|
| UL AWM Style                                  | 2464/1061                                    |
| Number of positions                           | 14   |
| Shielded                                      | no   |
| Cable type                                    | 14X0.14 [PVC]                                |
| Conductor type                                | Round cable set                              |
| Conductor structure signal line               | 7x 0.16 mm                                   |
| AWG signal line                               | 26   |
| Conductor cross section                       | 14x 0.14 mm <sup>2</sup>                     |
| Wire diameter incl. insulation                | 1 mm ±0.03 mm                                |
| External cable diameter                       | 6.40 mm ±0.4 mm                              |
| Outer sheath, material                        | Semi-rigid PVC                               |
| External sheath, color                        | gray   |
| Conductor material                            | Tin-plated Cu litz wires                     |
| Cable resistance                              | ≤ 145 Ω/km (20 °C)                           |
| Insulation resistance                         | ≥ 20 MΩ*km (20 °C)                           |
| Smallest bending radius, fixed installation   | 55 mm  |
| Smallest bending radius, movable installation | 104 mm                                       |
| Max. bending cycles                           | 5000 (at a radius of ≥ 15x outside diameter) |
| Halogen-free                                  | no   |
| Flame resistance                              | IEC 60332-1-2 (raw cable)                    |
|   | VDE 0842, Part 332-1-2 (raw cable)           |
|   | IEC 60332-3-22 (raw cable)                   |

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|                   |   |
|-------------------|---|
|                   | UL VW-1                                       |
|                   | CSA FT-1                                      |
| Resistance to oil | can withstand occasional splashes (raw cable) |
| IDC/FLK50 (1)     | IDC/FLK14-1 (9) = gray                        |
| IDC/FLK50 (2)     | IDC/FLK14-1 (11) = white-black                |
| IDC/FLK50 (3)     | IDC/FLK14-1 (1) = black                       |
| IDC/FLK50 (4)     | IDC/FLK14-1 (2) = brown                       |
| IDC/FLK50 (5)     | IDC/FLK14-1 (3) = red                         |
| IDC/FLK50 (6)     | IDC/FLK14-1 (4) = orange                      |
| IDC/FLK50 (7)     | IDC/FLK14-1 (5) = yellow                      |
| IDC/FLK50 (8)     | IDC/FLK14-1 (6) = green                       |
| IDC/FLK50 (9)     | IDC/FLK14-1 (7) = blue                        |
| IDC/FLK50 (10)    | IDC/FLK14-1 (8) = violet                      |
| IDC/FLK50 (11)    | IDC/FLK14-1 (10) = white                      |
| IDC/FLK50 (12)    | IDC/FLK14-1 (12) = white-brown                |
| IDC/FLK50 (13)    | IDC/FLK14-2 (9) = gray                        |
| IDC/FLK50 (14)    | IDC/FLK14-2 (11) = white-black                |
| IDC/FLK50 (15)    | IDC/FLK14-2 (1) = black                       |
| IDC/FLK50 (16)    | IDC/FLK14-2 (2) = brown                       |
| IDC/FLK50 (17)    | IDC/FLK14-2 (3) = red                         |
| IDC/FLK50 (18)    | IDC/FLK14-2 (4) = orange                      |
| IDC/FLK50 (19)    | IDC/FLK14-2 (5) = yellow                      |
| IDC/FLK50 (20)    | IDC/FLK14-2 (6) = green                       |
| IDC/FLK50 (21)    | IDC/FLK14-2 (7) = blue                        |
| IDC/FLK50 (22)    | IDC/FLK14-2 (8) = violet                      |
| IDC/FLK50 (23)    | IDC/FLK14-2 (10) = white                      |
| IDC/FLK50 (24)    | IDC/FLK14-2 (12) = white-brown                |
| IDC/FLK50 (25)    | IDC/FLK14-3 (9) = gray                        |
| IDC/FLK50 (26)    | IDC/FLK14-3 (11) = white-black                |
| IDC/FLK50 (27)    | IDC/FLK14-3 (1) = black                       |
| IDC/FLK50 (28)    | IDC/FLK14-3 (2) = brown                       |
| IDC/FLK50 (29)    | IDC/FLK14-3 (3) = red                         |
| IDC/FLK50 (30)    | IDC/FLK14-3 (4) = orange                      |
| IDC/FLK50 (31)    | IDC/FLK14-3 (5) = yellow                      |
| IDC/FLK50 (32)    | IDC/FLK14-3 (6) = green                       |
| IDC/FLK50 (33)    | IDC/FLK14-3 (7) = blue                        |
| IDC/FLK50 (34)    | IDC/FLK14-3 (8) = violet                      |
| IDC/FLK50 (35)    | IDC/FLK14-3 (10) = white                      |
| IDC/FLK50 (36)    | IDC/FLK14-3 (12) = white-brown                |
| IDC/FLK50 (37)    | IDC/FLK14-4 (9) = gray                        |
| IDC/FLK50 (38)    | IDC/FLK14-4 (11) = white-black                |
| IDC/FLK50 (39)    | IDC/FLK14-4 (1) = black                       |
| IDC/FLK50 (40)    | IDC/FLK14-4 (2) = brown                       |
| IDC/FLK50 (41)    | IDC/FLK14-4 (3) = red                         |

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|                |                                  |
|----------------|----------------------------------|
| IDC/FLK50 (42) | IDC/FLK14-4 (4) = orange         |
| IDC/FLK50 (43) | IDC/FLK14-4 (5) = yellow         |
| IDC/FLK50 (44) | IDC/FLK14-4 (6) = green          |
| IDC/FLK50 (45) | IDC/FLK14-4 (7) = blue           |
| IDC/FLK50 (46) | IDC/FLK14-4 (8) = violet         |
| IDC/FLK50 (47) | IDC/FLK14-4 (10) = white         |
| IDC/FLK50 (48) | IDC/FLK14-4 (12) = white-brown   |
| Cable type     | Splitting cable for four modules |

## Connection data

### Connection 1

|                                  |                       |
|----------------------------------|-----------------------|
| Connection in acc. with standard | based on IEC 60603-13 |
| Connection method                | IDC/FLK socket strip  |
| Number of connections            | 1                     |
| Number of positions              | 50                    |
| Insertion/withdrawal cycles      | > 50                  |
| Pitch                            | 2.54 mm               |

### Connection 2

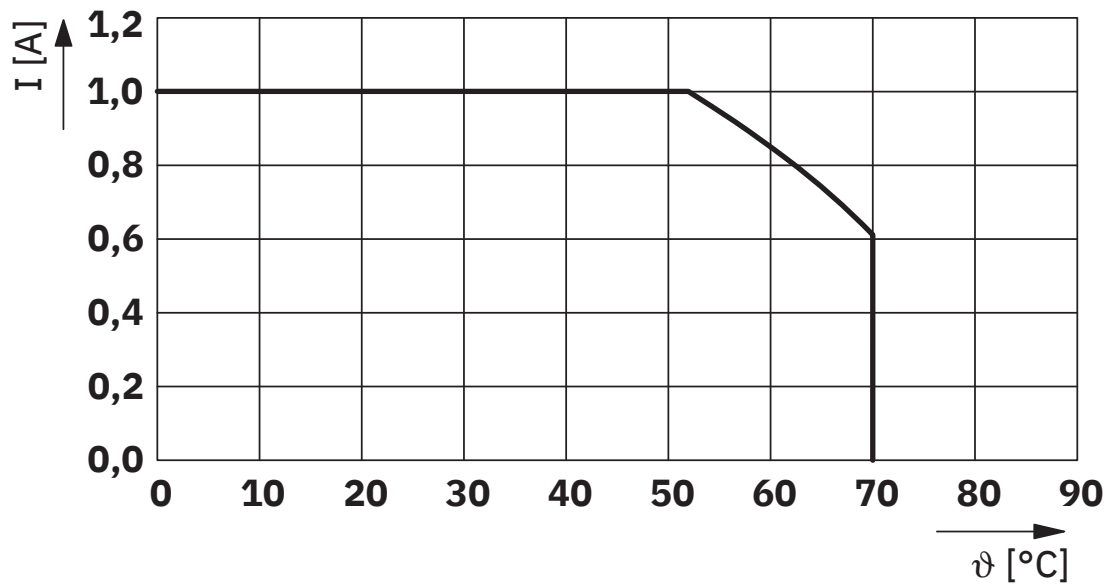
|                                  |                       |
|----------------------------------|-----------------------|
| Connection in acc. with standard | based on IEC 60603-13 |
| Connection method                | IDC/FLK socket strip  |
| Number of connections            | 4                  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

## 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. |
|--------------------|--|

## Drawings

Diagram



Maximum permissible current per path in uncoiled state

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2296692>



### EAC

Approval ID: RU\*-DE.HB\*35.B00385



### UL Listed

Approval ID: FILE E 238705

|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|--|-----------------------|-----------------------|-------------------|----------------------|
|  | 125 V                 | 1 A                   | -                 | -                    |



### cUL Listed

Approval ID: FILE E 238705

|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|--|-----------------------|-----------------------|-------------------|----------------------|
|  | 125 V                 | 1 A                   | -                 | -                    |

### cULus Listed

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27242220 |
| ECLASS-12.0 | 27242220 |
| ECLASS-13.0 | 27242220 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC000237 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 26121600 |
|-------------|----------|



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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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## Accessories

### KME - Cable marker carrier

0807083

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Cable marker carrier, white, unlabeled, mounting type: Assembly with cable ties, cable diameter: > 5 mm, lettering field size: 20 x 8 mm

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