

# FLK 14/EZ-DR/HF/ 500/KONFEK - Cable



2304717

<https://www.phoenixcontact.com/us/products/2304717>

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Assembled, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 14-position); connection 2: IDC/FLK socket strip (1x 14-position); cable length: 5 m

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2304717                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C421                           |
| Product key                          | DK2217                         |
| GTIN                                 | 4017918955236                  |
| Weight per piece (including packing) | 299 g                          |
| Weight per piece (excluding packing) | 268.9 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) (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                                 |

### 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 | 6ES7521-1BH00-0AB0 |
|                   | 6ES7521-1BH10-0AA0 |
|                   | 6ES7521-1BH50-0AA0 |
|                   | 6ES7521-1BL00-0AB0 |
|                   | 6ES7522-1BH00-0AB0 |
|                   | 6ES7522-1BH01-0AB0 |
|                   | 6ES7522-1BH10-0AA0 |
|                   | 6ES7522-1BL00-0AB0 |
|                   | 6ES7522-1BL01-0AB0 |
|                   | 6ES7531-7KF00-0AB0 |
|                   | 6ES7531-7LH00-0AB0 |
|                   | 6ES7531-7MH00-0AB0 |
|                   | 6ES7531-7NF00-0AB0 |
|                   | 6ES7531-7NF10-0AB0 |
|                   | 6ES7531-7PF00-0AB0 |
|                   | 6ES7532-5HF00-0AB0 |
|                   | 6ES7532-5HD00-0AB0 |
|                   | 6ES7532-5ND00-0AB0 |

#### Supported controller SIEMENS S7-300 / ET 200 M

|                   |          |
|-------------------|----------|
| Suitable I/O card | CPU 312C |
|                   | CPU 313C |

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|  |                    |
|--|--------------------|
|  | CPU 313C-2DP       |
|  | CPU 313C-2PtP      |
|  | CPU 314C-2DP       |
|  | CPU 314C-2PtP      |
|  | 6ES7321-1BH02-0AA0 |
|  | 6ES7321-1BH10-0AA0 |
|  | 6ES7321-1BH50-0AA0 |
|  | 6ES7321-1BL00-0AA0 |
|  | 6ES7321-7BH01-0AB0 |
|  | 6ES7322-1BH01-0AA0 |
|  | 6ES7322-1BH10-0AA0 |
|  | 6ES7322-1BL00-0AA0 |
|  | 6ES7322-8BF00-0AB0 |
|  | 6ES7322-8BH01-0AB0 |
|  | 6ES7323-1BH01-0AA0 |
|  | 6ES7323-1BL00-0AA0 |
|  | 6ES7331-7HF01-0AB0 |
|  | 6ES7331-7KB02-0AB0 |
|  | 6ES7331-7KF02-0AB0 |
|  | 6ES7331-7NF00-0AB0 |
|  | 6ES7331-7PF01-0AB0 |
|  | 6ES7331-7PF11-0AB0 |
|  | 6ES7332-5HD01-0AB0 |
|  | 6ES7332-5HB01-0AB0 |
|  | 6ES7332-7ND02-0AB0 |
|  | 6ES7332-8TF01-0AB0 |
|  | 6ES7334-0CE01-0AA0 |
|  | 6ES7334-0KE00-0AB0 |
|  | 6ES7335-7HG01-0AB0 |
|  | 6ES7336-4GE00-0AB0 |
|  | 6ES7338-4BC01-0AB0 |
|  | 6ES7350-1AH03-0AE0 |
|  | 6ES7350-2AH01-0AE0 |
|  | 6ES7351-1AH01-0AE0 |
|  | 6ES7352-1AH02-0AE0 |
|  | 6ES7353-1AH01-0AE0 |
|  | 6ES7354-1AH01-0AE0 |
|  | 6ES7355-0VH10-0AE0 |
|  | 6ES7355-1VH10-0AE0 |
|  | 6ES7357-4AH01-0AE0 |

Supported controller ALLEN-BRADLEY ControlLogix

|                   |           |
|-------------------|-----------|
| Suitable I/O card | 1756-IN16 |
|                   | 1756-IA8D |

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|  |            |
|--|------------|
|  | 1756-IA16  |
|  | 1756-IB16  |
|  | 1756-IC16  |
|  | 1756-OB16E |
|  | 1756-IR6I  |
|  | 1756-IT6I  |
|  | 1756-OF4   |
|  | 1756-OF6CI |
|  | 1756-OF8   |
|  | 1756-PLS   |

Supported controller HONEYWELL Experion PKS C200

|                   |            |
|-------------------|------------|
| Suitable I/O card | TC-IDX 081 |
|                   | TC-IDA 161 |
|                   | TC-IAH 061 |
|                   | TC-IXR 061 |
|                   | TC-IXL 061 |
|                   | TC-OAH 061 |
|                   | TC-OAV 061 |
|                   | TC-OAV 081 |

Supported controller SCHNEIDER ELECTRIC Modicon TSX QUANTUM

|                   |         |
|-------------------|---------|
| Suitable I/O card | DDI 353 |
|                   | DDI 853 |
|                   | DAI 453 |
|                   | DDO 353 |

## Cable/line

|                                               |                                     |
|-----------------------------------------------|-------------------------------------|
| Cable length                                  | 5 m                                 |
| UL AWM Style                                  | 21946                               |
| Number of positions                           | 14                                  |
| Shielded                                      | no                                  |
| Conductor type                                | Assembled, halogen-free round cable |
| 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                       | 5.80 mm ±0.4 mm                     |
| Outer sheath, material                        | halogen-free (type 2)               |
| 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   | 50 mm                               |
| Smallest bending radius, movable installation | 93 mm                               |

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|                                 |                                                                        |
|---------------------------------|------------------------------------------------------------------------|
| Dynamic load capacity (bending) | Max. bending cycles: 5000 (at a radius of $\geq 15x$ outside diameter) |
| Halogen-free                    | yes                                                                    |
| Flame resistance                | IEC 60332-1-2 (raw cable)                                              |
|                                 | VDE 0842, Part 332-1-2 (raw cable)                                     |
|                                 | IEC 60332-3-22 (raw cable)                                             |
| Resistance to oil               | can withstand occasional splashes (raw cable)                          |
| Cable type                      | Cable for one module                                                   |

Color code: Single-core wire

|              |                                 |
|--------------|---------------------------------|
| black        | IDC/FLK14 (1) = IDC/FLK14 (1)   |
| brown        | IDC/FLK14 (2) = IDC/FLK14 (2)   |
| red          | IDC/FLK14 (3) = IDC/FLK14 (3)   |
| orange       | IDC/FLK14 (4) = IDC/FLK14 (4)   |
| yellow       | IDC/FLK14 (5) = IDC/FLK14 (5)   |
| green        | IDC/FLK14 (6) = IDC/FLK14 (6)   |
| blue         | IDC/FLK14 (7) = IDC/FLK14 (7)   |
| violet       | IDC/FLK14 (8) = IDC/FLK14 (8)   |
| gray         | IDC/FLK14 (9) = IDC/FLK14 (9)   |
| white        | IDC/FLK14 (10) = IDC/FLK14 (10) |
| white-black  | IDC/FLK14 (11) = IDC/FLK14 (11) |
| white-brown  | IDC/FLK14 (12) = IDC/FLK14 (12) |
| white-red    | IDC/FLK14 (13) = IDC/FLK14 (13) |
| white-orange | IDC/FLK14 (14) = IDC/FLK14 (14) |

## Connection data

### Connection 1

|                                  |                              |
|----------------------------------|------------------------------|
| Connection in acc. with standard | IEC 60603-13 (in compliance) |
| Connection method                | IDC/FLK socket strip         |
| Number of connections            | 1                            |
| Number of positions              | 14                           |
| 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            | 1                            |
| 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- |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------|

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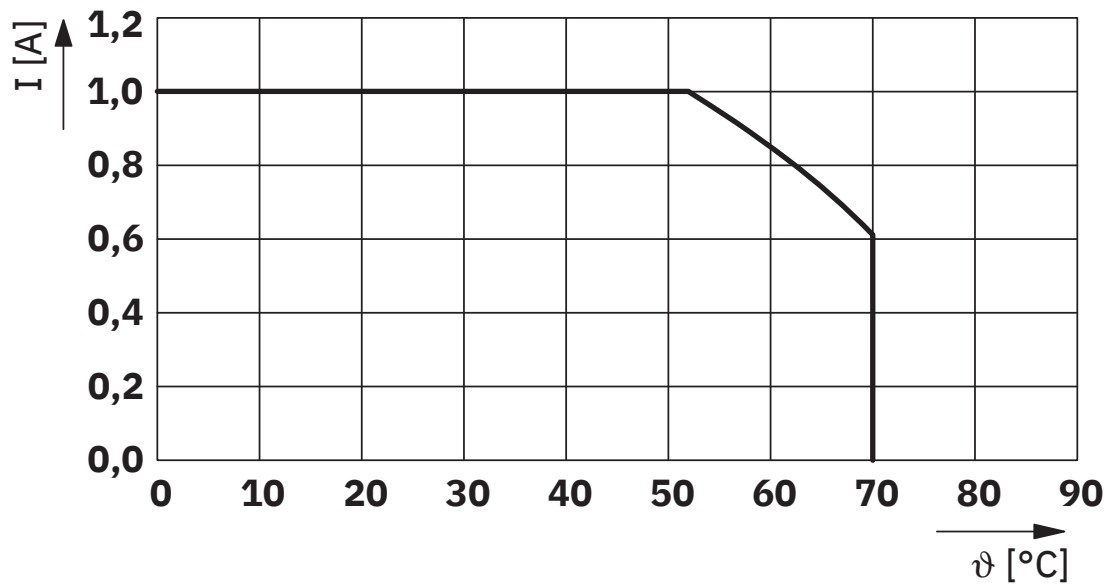
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|                      |                                                                                                                                          |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------|
|                      | party products, the specifications, and the safety and warning instructions of the respective third-party manufacturer must also be met. |
| Material information | Only the cable is halogen-free for this product.                                                                                         |

## 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/2304717>

|                                                                                   |                                                |
|-----------------------------------------------------------------------------------|------------------------------------------------|
|  | <b>EAC</b><br>Approval ID: RU*-DE.HB*35.B00385 |
|-----------------------------------------------------------------------------------|------------------------------------------------|

|                                                                                                                                        |                                |                                |                   |                               |
|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
| <div> <b>UL Listed</b><br/>Approval ID: E238705</div> |                                |                                |                   |                               |
|                                                                                                                                        | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
| keine                                                                                                                                  |                                |                                |                   |                               |
|                                                                                                                                        | 125 V                          | 1 A                            | -                 | -                             |

|                                                                                                                                         |                                |                                |                   |                               |
|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
| <div> <b>cUL Listed</b><br/>Approval ID: E238705</div> |                                |                                |                   |                               |
|                                                                                                                                         | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
| keine                                                                                                                                   |                                |                                |                   |                               |
|                                                                                                                                         | 125 V                          | 1 A                            | -                 | -                             |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27242220 |
| ECLASS-15.0 | 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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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)