

# FLK 14/EZ-DR/ 150/KONFEK/S - Cable



2296993

<https://www.phoenixcontact.com/us/products/2296993>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Assembled shielded round cable; connection 1: IDC/FLK socket strip (1x 14-position); connection 2: IDC/FLK socket strip (1x 14-position) (The braided shield is routed to a separate cable end.); cable length: 1.5 m

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2296993       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | C421          |
| Product key                          | DK2212        |
| GTIN                                 | 4017918824952 |
| Weight per piece (including packing) | 118.2 g       |
| Weight per piece (excluding packing) | 111.4 g       |
| Customs tariff number                | 85444290      |
| Country of origin                    | DE            |

# FLK 14/EZ-DR/ 150/KONFEK/S - Cable



2296993

<https://www.phoenixcontact.com/us/products/2296993>

## 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 |

# FLK 14/EZ-DR/ 150/KONFEK/S - Cable



2296993

<https://www.phoenixcontact.com/us/products/2296993>

|  |                    |
|--|--------------------|
|  | 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 |

# FLK 14/EZ-DR/ 150/KONFEK/S - Cable



2296993

<https://www.phoenixcontact.com/us/products/2296993>

|  |            |
|--|------------|
|  | 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 | 1.5 m |
|--------------|-------|

14X0.14 [PVC]

|                                 |                                |
|---------------------------------|--------------------------------|
| UL AWM Style                    | 2464/1061                      |
| Number of positions             | 14                             |
| Shielded                        | yes                            |
| Cable type                      | 14X0.14 [PVC]                  |
| Conductor type                  | Assembled shielded 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         | 6.70 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)             |

# FLK 14/EZ-DR/ 150/KONFEK/S - Cable



2296993

<https://www.phoenixcontact.com/us/products/2296993>

|                                               |                                                                   |
|-----------------------------------------------|-------------------------------------------------------------------|
| Insulation resistance                         | ≥ 20 MΩ*km (20 °C)                                                |
| Smallest bending radius, fixed installation   | 71 mm                                                             |
| Smallest bending radius, movable installation | 128 mm                                                            |
| Dynamic load capacity (bending)               | 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)                                        |
|                                               | UL VW-1                                                           |
|                                               | CSA FT-1                                                          |
| 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                                                    |
| Note                             | The braided shield is routed to a separate cable end. |

# FLK 14/EZ-DR/ 150/KONFEK/S - Cable



2296993

<https://www.phoenixcontact.com/us/products/2296993>

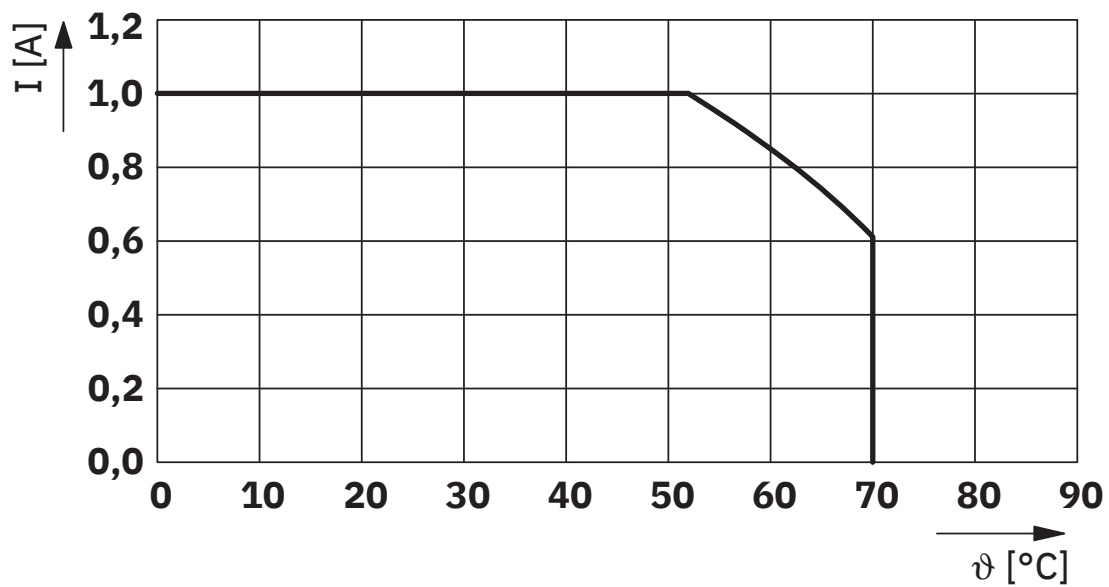
|                             |                                                                          |
|-----------------------------|--------------------------------------------------------------------------|
|                             | The separate cable end is approximately 0.5 m long (H05V-K 1 mm², black) |
| 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

# FLK 14/EZ-DR/ 150/KONFEK/S - Cable



2296993

<https://www.phoenixcontact.com/us/products/2296993>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2296993>



**EAC**

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



**UL Listed**

Approval ID: E238705

|       | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|-------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine |                       |                       |                   |                             |
|       | 125 V                 | 1 A                   | -                 | -                           |



**cUL Listed**

Approval ID: E238705

|       | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|-------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine |                       |                       |                   |                             |
|       | 125 V                 | 1 A                   | -                 | -                           |



# FLK 14/EZ-DR/ 150/KONFEK/S - Cable



2296993

<https://www.phoenixcontact.com/us/products/2296993>

## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27242220 |
| ECLASS-15.0 | 27242220 |

### ETIM

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

### UNSPSC

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

# FLK 14/EZ-DR/ 150/KONFEK/S - Cable



2296993

<https://www.phoenixcontact.com/us/products/2296993>

## 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% |
|-------------------------------------|----------------------------|

Phoenix Contact 2025 © - all rights reserved  
<https://www.phoenixcontact.com>

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