

# FLK 16/24/DV-AI/EZ-DR/200 - Cable



2301545

<https://www.phoenixcontact.com/us/products/2301545>

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Round cable set; controller: Emerson Delta V; connection 1: IDC/FLK socket strip (1x 24-position); connection 2: IDC/FLK socket strip (1x 16-position); cable length: 2 m

## Your advantages

- The DeltaV system can be used to install the process wiring via "mass termination blocks" (MTBs) using flat-ribbon cable plugs
- For analog modules with 24-pos. MTB

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2301545                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C421                           |
| Product key                          | DK221K                         |
| GTIN                                 | 4017918960261                  |
| Weight per piece (including packing) | 139 g                          |
| Weight per piece (excluding packing) | 139 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 EMERSON DeltaV

|                   |            |
|-------------------|------------|
| Suitable I/O card | VE4003S2B5 |
|-------------------|------------|

### Cable/line

|              |     |
|--------------|-----|
| Cable length | 2 m |
|--------------|-----|

#### 16X0.14 [PVC]

|                                             |                          |
|---------------------------------------------|--------------------------|
| UL AWM Style                                | 2464/1061                |
| Number of positions                         | 16                       |
| Shielded                                    | no                       |
| Cable type                                  | 16X0.14 [PVC]            |
| Conductor type                              | Round cable set          |
| Conductor structure signal line             | 7x 0.16 mm               |
| AWG signal line                             | 26                       |
| Conductor cross section                     | 16x 0.14 mm <sup>2</sup> |
| Wire diameter incl. insulation              | 1 mm ±0.03 mm            |
| External cable diameter                     | 6.80 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 | 58 mm                    |

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|                                               |                                                                        |
|-----------------------------------------------|------------------------------------------------------------------------|
| Smallest bending radius, movable installation | 108 mm                                                                 |
| Dynamic load capacity (bending)               | Max. bending cycles: 5000 (at a radius of $\geq 15x$ 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/FLK16 (1) = IDC/FLK24 (3)   |
| brown        | IDC/FLK16 (2) = IDC/FLK24 (1)   |
| red          | IDC/FLK16 (3) = IDC/FLK24 (3)   |
| orange       | IDC/FLK16 (4) = IDC/FLK24 (5)   |
| yellow       | IDC/FLK16 (5) = IDC/FLK24 (9)   |
| green        | IDC/FLK16 (6) = IDC/FLK24 (7)   |
| blue         | IDC/FLK16 (7) = IDC/FLK24 (9)   |
| violet       | IDC/FLK16 (8) = IDC/FLK24 (11)  |
| gray         | IDC/FLK16 (9) = IDC/FLK24 (15)  |
| white        | IDC/FLK16 (10) = IDC/FLK24 (13) |
| white-black  | IDC/FLK16 (11) = IDC/FLK24 (15) |
| white-brown  | IDC/FLK16 (12) = IDC/FLK24 (17) |
| white-red    | IDC/FLK16 (13) = IDC/FLK24 (21) |
| white-orange | IDC/FLK16 (14) = IDC/FLK24 (19) |
| white-yellow | IDC/FLK16 (15) = IDC/FLK24 (21) |
| white-green  | IDC/FLK16 (16) = IDC/FLK24 (23) |

## 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              | 24                           |
| 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              | 16                           |
| Insertion/withdrawal cycles      | > 50                         |

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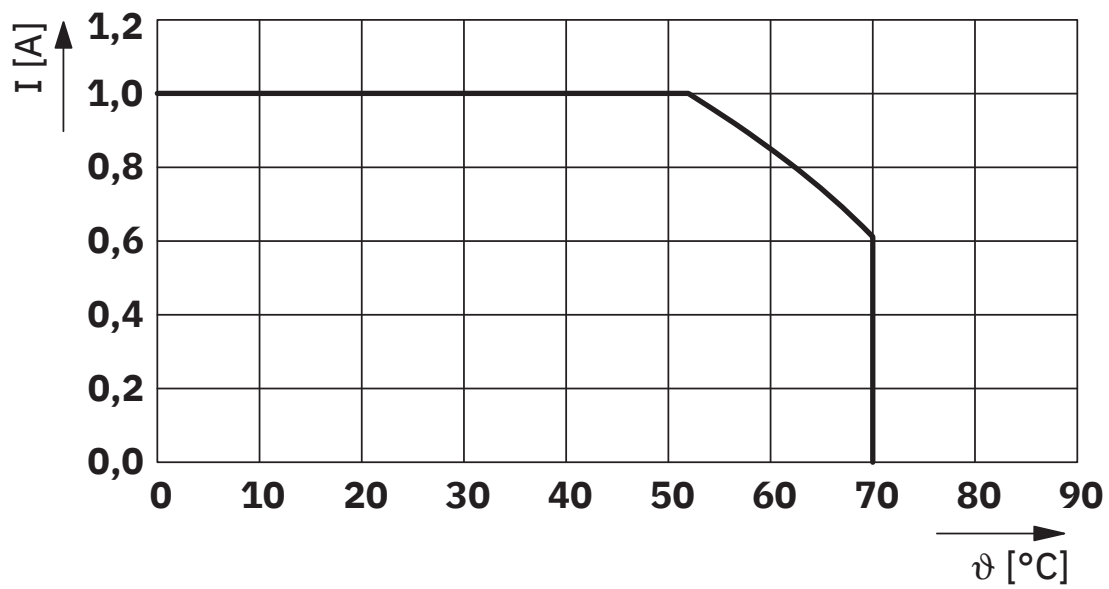
|       |         |
|-------|---------|
| Pitch | 2.54 mm |
|-------|---------|

### 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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## Classifications

### ECLASS

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