

# FLK 16/EZ-DR/ 300/KONFEK - Cable



2299330

<https://www.phoenixcontact.com/us/products/2299330>

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Round cable set; connection 1: IDC/FLK socket strip (1x 16-position); connection 2: IDC/FLK socket strip (1x 16-position); cable length: 3 m



## Your advantages

- Unshielded

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2299330       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | C421          |
| Product key                          | DK2211        |
| GTIN                                 | 4017918886059 |
| Weight per piece (including packing) | 205.2 g       |
| Weight per piece (excluding packing) | 186.1 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 | VE4001S2T2B3          |
|                   | VE4001S2T2B3 Series 2 |
|                   | VE4001S2T1B3          |
|                   | VE4002S1T1B3          |
|                   | VE4002S1T2B3          |
|                   | VE4002S1T2B3 Series 2 |
|                   | VE4003S2B4            |
|                   | VE4005S2B3            |

### Cable/line

|              |     |
|--------------|-----|
| Cable length | 3 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            |

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|   |   |
|---|---|
| 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   |
| Smallest bending radius, movable installation | 108 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/FLK16 (1) = IDC/FLK16 (1)   |
| brown        | IDC/FLK16 (2) = IDC/FLK16 (2)   |
| red          | IDC/FLK16 (3) = IDC/FLK16 (3)   |
| orange       | IDC/FLK16 (4) = IDC/FLK16 (4)   |
| yellow       | IDC/FLK16 (5) = IDC/FLK16 (5)   |
| green        | IDC/FLK16 (6) = IDC/FLK16 (6)   |
| blue         | IDC/FLK16 (7) = IDC/FLK16 (7)   |
| violet       | IDC/FLK16 (8) = IDC/FLK16 (8)   |
| gray         | IDC/FLK16 (9) = IDC/FLK16 (9)   |
| white        | IDC/FLK16 (10) = IDC/FLK16 (10) |
| white-black  | IDC/FLK16 (11) = IDC/FLK16 (11) |
| white-brown  | IDC/FLK16 (12) = IDC/FLK16 (12) |
| white-red    | IDC/FLK16 (13) = IDC/FLK16 (13) |
| white-orange | IDC/FLK16 (14) = IDC/FLK16 (14) |
| white-yellow | IDC/FLK16 (15) = IDC/FLK16 (15) |
| white-green  | IDC/FLK16 (16) = IDC/FLK16 (16) |

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

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|       |         |
|-------|---------|
| 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                         |
| 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/2299330>



**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                   | -                 | -                           |

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## Classifications

### ECLASS

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

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | 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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