

# FLK 10/EZ-DR/1000/KONFEK - Cable



2299288

<https://www.phoenixcontact.com/us/products/2299288>

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Round cable set; connection 1: IDC/FLK socket strip (1x 10-position); connection 2: IDC/FLK socket strip (1x 10-position); cable length: 10 m

## Your advantages

- Unshielded

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2299288                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C421                           |
| Product key                          | DK2211                         |
| GTIN                                 | 4017918886011                  |
| Weight per piece (including packing) | 510.5 g                        |
| Weight per piece (excluding packing) | 493.6 g                        |
| Customs tariff number                | 85444290                       |
| Country of origin                    | DE                             |

## 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 | VE4002S1T2B4 |
|-------------------|--------------|

### Cable/line

|              |      |
|--------------|------|
| Cable length | 10 m |
|--------------|------|

#### 10X0.14 [PVC]

|   |                          |
|---|--------------------------|
| UL AWM Style                                | 2464/1061                |
| Number of positions                         | 10                       |
| Shielded                                    | no                       |
| Cable type                                  | 10X0.14 [PVC]            |
| Conductor type                              | Round cable set          |
| Conductor structure signal line             | 7x 0.16 mm               |
| AWG signal line                             | 26                       |
| Conductor cross-section                     | 10x 0.14 mm <sup>2</sup> |
| Wire diameter incl. insulation              | 1 mm ±0.03 mm            |
| External cable diameter                     | 6.10 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 | 52 mm                    |

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|   |  |
|---|--|
| Smallest bending radius, movable installation | 98 mm  |
| Dynamic load capacity (bending)               | Max. bending cycles: 5000  |
| Halogen-free                                  | no   |
| Flame resistance                              | IEC 60332-1-2 (raw cable)<br>VDE 0842, Part 332-1-2 (raw cable)<br>IEC 60332-3-22 (raw cable)<br>UL VW-1<br>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/FLK10 (1) = IDC/FLK10 (1)   |
| brown  | IDC/FLK10 (2) = IDC/FLK10 (2)   |
| red    | IDC/FLK10 (3) = IDC/FLK10 (3)   |
| orange | IDC/FLK10 (4) = IDC/FLK10 (4)   |
| yellow | IDC/FLK10 (5) = IDC/FLK10 (5)   |
| green  | IDC/FLK10 (6) = IDC/FLK10 (6)   |
| blue   | IDC/FLK10 (7) = IDC/FLK10 (7)   |
| violet | IDC/FLK10 (8) = IDC/FLK10 (8)   |
| gray   | IDC/FLK10 (9) = IDC/FLK10 (9)   |
| white  | IDC/FLK10 (10) = IDC/FLK10 (10) |

## 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              | 10                           |
| 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              | 10                           |
| 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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## Classifications

### 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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