# FLK 20/2FLK14/EZ-DR/100/KONFEK - Cable

2298470

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Round cable set; connection 1: IDC/FLK socket strip (1x 20-position); connection 2: IDC/FLK socket strip (2x 14-position); cable length: 1 m

## Your advantages

- The DeltaV system can be used to install the process wiring via "mass termination blocks" (MTBs) using flat-ribbon cable plugs

- The 16 digital signals are split into 2x 8 signals on the field side

- IDC/FLK connector: 20-pos. to two 14-pos. (in accordance with IEC 60603-13)

- Suitable for connecting 16-channel digital cards, e.g., SIMATIC® ET 200SP

- For digital modules with 40-pos. MTB for connection to PLC-INTERFACE

## Commercial data

| | |
|---|---|
| Item number | 2298470 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | C421 |
| Product key | DK2215 |
| GTIN | 4017918601782 |
| Weight per piece (including packing) | 100 g |
| Weight per piece (excluding packing) | 97.4 g |
| Customs tariff number | 85444290 |
| Country of origin | DE |

# FLK 20/2FLK14/EZ-DR/100/KONFEK - Cable

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https://www.phoenixcontact.com/us/products/2298470

## 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 | VE4001S2T2B5 |
| | VE4002S1T2B6 |

#### Supported controller SIEMENS ET 200SP

| | |
|---|---|
| Suitable base unit | 6ES7193-6BP00-0BA0 |
| | 6ES7193-6BP00-2BA0 |
| | 6ES7193-6BP00-0BA1 |
| | 6ES7193-6BP00-0DA0 |
| | 6ES7193-6BP00-2DA0 |
| | 6ES7193-6BP00-0DA1 |
| Suitable I/O module | 6ES7131-6BH01-0BA0 (Base Units A0/A1) |
| | 6ES7131-6BH01-2BA0 (Base Units A0/A1) |
| | 6ES7132-6BH01-0BA0 (Base Units A0/A1) |
| | 6ES7132-6BH01-2BA0 (Base Units A0/A1) |

### Cable/line

| | |
|---|---|
| Cable length | 1 m |

#### 20X0.14 [PVC]

| | |
|---|---|
| UL AWM Style | 2464/1061 |
| Number of positions | 20 |
| Shielded | no |

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| | |
|---|---|
| Cable type | 20X0.14 [PVC] |
| Conductor type | Round cable set |
| Conductor structure signal line | 7x 0.16 mm |
| AWG signal line | 26 |
| Conductor cross section | 20x 0.14 mm² |
| Wire diameter incl. insulation | 1 mm ±0.03 mm |
| External cable diameter | 7.60 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 | 64 mm |
| Smallest bending radius, movable installation | 120 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 | Splitting cable for two modules |

Color code: Single-core wire

| | |
|---|---|
| black | IDC/FLK20 (1) = IDC/FLK14-1 (1) |
| brown | IDC/FLK20 (2) = IDC/FLK14-1 (2) |
| red | IDC/FLK20 (3) = IDC/FLK14-1 (3) |
| orange | IDC/FLK20 (4) = IDC/FLK14-1 (4) |
| yellow | IDC/FLK20 (5) = IDC/FLK14-1 (5) |
| green | IDC/FLK20 (6) = IDC/FLK14-1 (6) |
| blue | IDC/FLK20 (7) = IDC/FLK14-1 (7) |
| violet | IDC/FLK20 (8) = IDC/FLK14-1 (8) |
| gray | IDC/FLK20 (9) = IDC/FLK14-2 (1) |
| white | IDC/FLK20 (10) = IDC/FLK14-2 (2) |
| white-black | IDC/FLK20 (11) = IDC/FLK14-2 (3) |
| white-brown | IDC/FLK20 (12) = IDC/FLK14-2 (4) |
| white-red | IDC/FLK20 (13) = IDC/FLK14-2 (5) |
| white-orange | IDC/FLK20 (14) = IDC/FLK14-2 (6) |
| white-yellow | IDC/FLK20 (15) = IDC/FLK14-2 (7) |
| white-green | IDC/FLK20 (16) = IDC/FLK14-2 (8) |
| white-blue | IDC/FLK20 (17) = IDC/FLK14-2 (9) |
| white-violet | IDC/FLK20 (18) = IDC/FLK14-2 (10) |

| white-gray | IDC/FLK20 (19) = IDC/FLK14-1 (9) |
|---|---|
| brown-black | IDC/FLK20 (20) = IDC/FLK14-1 (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 | 20 |
| 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 | 2 |
| 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-party products, the specifications, and the safety and warning instructions of the respective third-party manufacturer must also be met. |
|---|---|

## Drawings

### Diagram
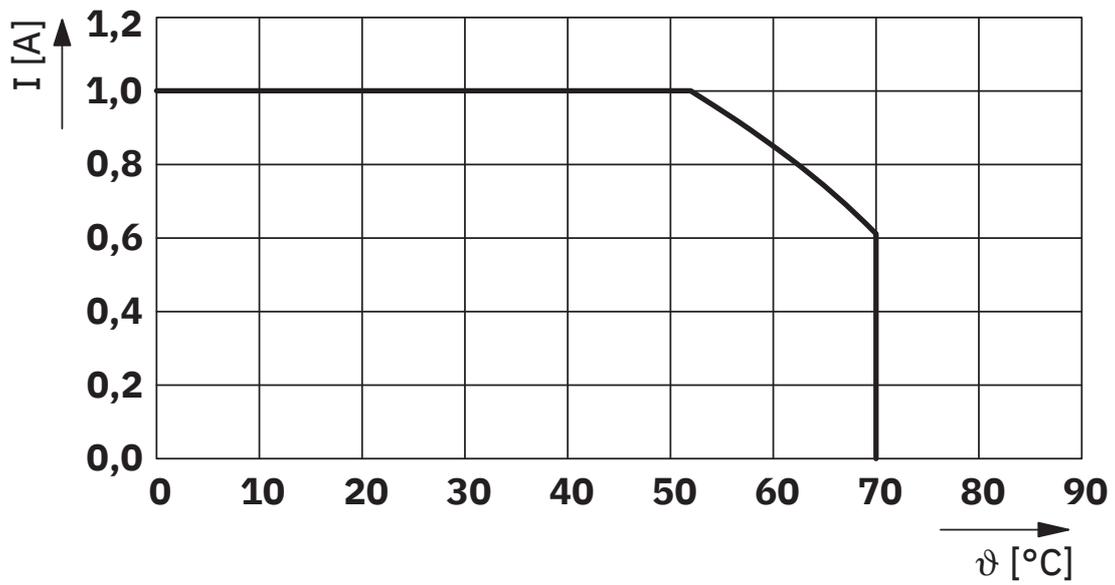


Maximum permissible current per path in uncoiled state

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2298470

**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 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 mm$^2$ |
|---|---|---|---|---|
| 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 |

## 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% |