

2902708

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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: 10 m

Your advantages

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

Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2902708                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C421                           |
| Product key                          | DK221K                         |
| GTIN                                 | 4046356671545                  |
| Weight per piece (including packing) | 825 g                          |
| Weight per piece (excluding packing) | 810 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 | 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 | 10 m |
|--------------|------|

#### 20X0.14 [PVC]

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

# FLK 20/2FLK14/EZ-DR/10M/KONFEK - Cable



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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 mm <sup>2</sup>                                          |
| 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) |

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

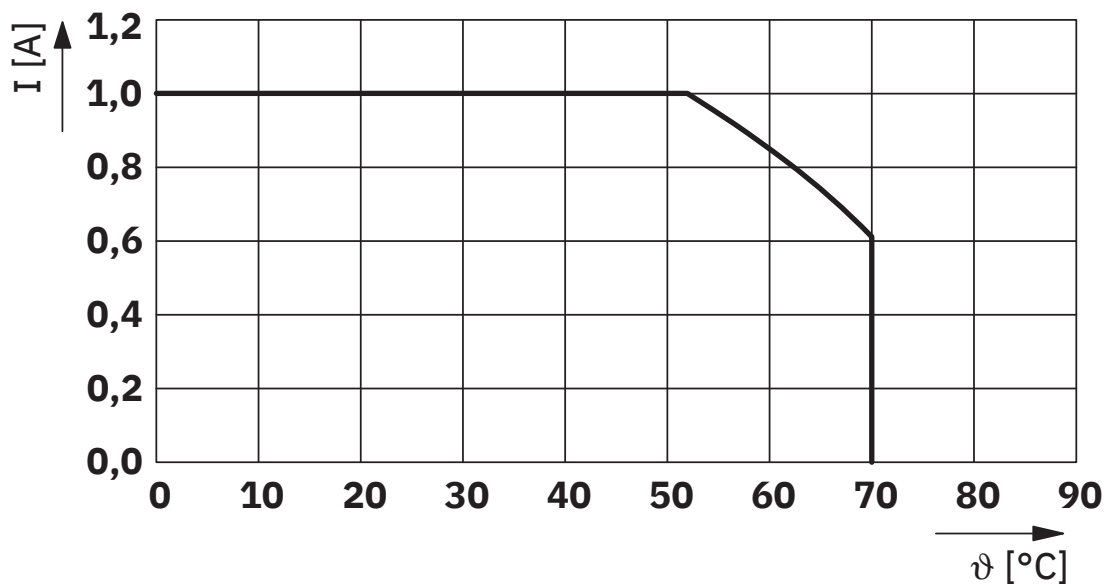
|                                  |                              |
|----------------------------------|------------------------------|
| Connection in acc. with standard | IEC 60603-13 (in compliance) |
| Connection method                | IDC/FLK socket strip         |
| Number of connections            | 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

# FLK 20/2FLK14/EZ-DR/10M/KONFEK - Cable



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2902708>



**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 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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