

# CABLE-FLK20/OE/0,14/1000 - Cable



2305868

<https://www.phoenixcontact.com/us/products/2305868>

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Round cable set; connection 1: Single wires (20-position) (The wires are marked and fitted with ferrules); connection 2: IDC/FLK socket strip (1x 20-position); cable length: 10 m



## Your advantages

- 20 and 50-pos.
- Connector in accordance with IEC 60603-13
- 1:1 connection
- Open end at one end

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2305868                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C421                           |
| Product key                          | DK2213                         |
| GTIN                                 | 4046356039192                  |
| Weight per piece (including packing) | 815.4 g                        |
| Weight per piece (excluding packing) | 815.4 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) |

### Cable/line

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

#### 20X0.14 [PVC]

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

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|                   |                                               |
|-------------------|-----------------------------------------------|
| 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/FLK20 (1) = ()  |
| brown        | IDC/FLK20 (2) = ()  |
| red          | IDC/FLK20 (3) = ()  |
| orange       | IDC/FLK20 (4) = ()  |
| yellow       | IDC/FLK20 (5) = ()  |
| green        | IDC/FLK20 (6) = ()  |
| blue         | IDC/FLK20 (7) = ()  |
| violet       | IDC/FLK20 (8) = ()  |
| gray         | IDC/FLK20 (9) = ()  |
| white        | IDC/FLK20 (10) = () |
| white-black  | IDC/FLK20 (11) = () |
| white-brown  | IDC/FLK20 (12) = () |
| white-red    | IDC/FLK20 (13) = () |
| white-orange | IDC/FLK20 (14) = () |
| white-yellow | IDC/FLK20 (15) = () |
| white-green  | IDC/FLK20 (16) = () |
| white-blue   | IDC/FLK20 (17) = () |
| white-violet | IDC/FLK20 (18) = () |
| white-gray   | IDC/FLK20 (19) = () |
| brown-black  | IDC/FLK20 (20) = () |

## Connection data

### Connection 1

|                           |                                                                                          |
|---------------------------|------------------------------------------------------------------------------------------|
| Connection method         | Single wires                                                                             |
| Stripping length (Sheath) | ≈  mm |
| Number of positions       | 20                                                                                       |
| Note                      | The wires are marked and fitted with ferrules                                            |

### 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              | 20                           |
| 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. |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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## Drawings

Schematic diagram



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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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