

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

2305745

<https://www.phoenixcontact.com/us/products/2305745>

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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: variable



## 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            | 2305745                        |
| Packing unit           | 1 pc                           |
| Minimum order quantity | 1 pc                           |
| Note                   | Made to order (non-returnable) |
| Sales key              | C492                           |
| Product key            | DK2213                         |
| 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 | variable |
|--------------|----------|

#### 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



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/2305745>



**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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