

# CABLE-FLK20/OE/0,14/ 50 - Cable

2305826

<https://www.phoenixcontact.com/us/products/2305826>



Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.

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: 0.5 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                          | 2305826                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C421                           |
| Product key                          | DK2213                         |
| GTIN                                 | 4046356039154                  |
| Weight per piece (including packing) | 54.4 g                         |
| Weight per piece (excluding packing) | 52.1 g                         |
| Customs tariff number                | 85444290                       |
| Country of origin                    | DE                             |

# CABLE-FLK20/OE/0,14/ 50 - Cable

2305826

<https://www.phoenixcontact.com/us/products/2305826>



## 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 | 0.5 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) |

# CABLE-FLK20/OE/0,14/ 50 - Cable



2305826

<https://www.phoenixcontact.com/us/products/2305826>


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

# CABLE-FLK20/OE/0,14/ 50 - Cable



2305826

<https://www.phoenixcontact.com/us/products/2305826>

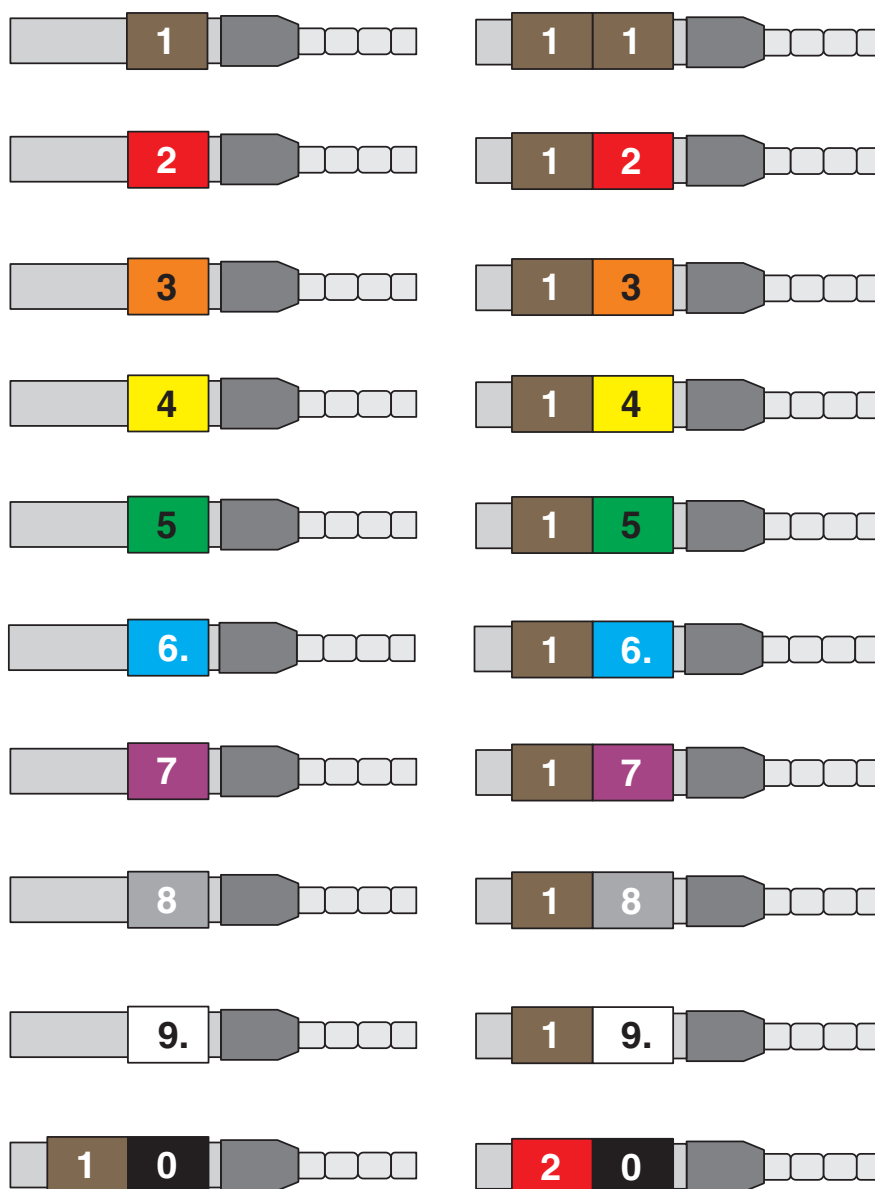
|       |         |
|-------|---------|
| Pitch | 2.54 mm |
|-------|---------|

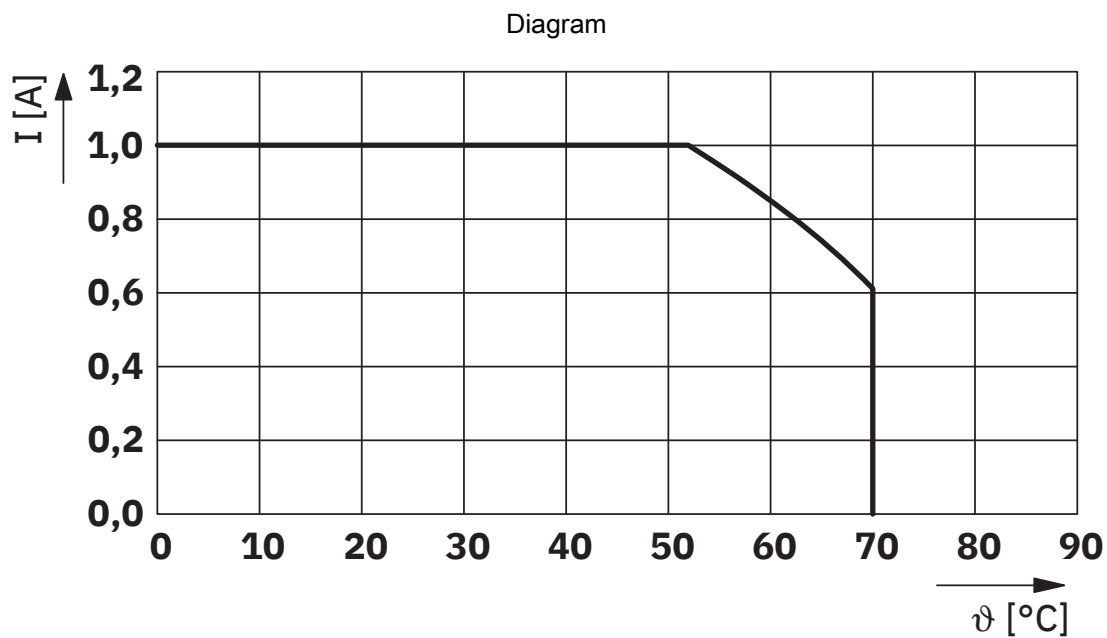
## Notes

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

Schematic diagram





Maximum permissible current per path in uncoiled state

# CABLE-FLK20/OE/0,14/ 50 - Cable

2305826

<https://www.phoenixcontact.com/us/products/2305826>



## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2305826>



**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                   | -                 | -                           |

# CABLE-FLK20/OE/0,14/ 50 - Cable

2305826

<https://www.phoenixcontact.com/us/products/2305826>



## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27242220 |
| ECLASS-15.0 | 27242220 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC000237 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 26121600 |
|-------------|----------|



# CABLE-FLK20/OE/0,14/ 50 - Cable



2305826

<https://www.phoenixcontact.com/us/products/2305826>

## 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% |
|-------------------------------------|----------------------------|

Phoenix Contact 2025 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)