

# CABLE-FLK20/2X14/1,0M/OMR-OUT - Cable



2314066

<https://www.phoenixcontact.com/us/products/2314066>

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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



## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2314066                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Product key                          | DK221O                         |
| GTIN                                 | 4046356095754                  |
| Weight per piece (including packing) | 62.8 g                         |
| Weight per piece (excluding packing) | 62.8 g                         |
| Country of origin                    | DE                             |

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## Technical data

### Product properties

|              |              |
|--------------|--------------|
| Product type | System cable |
|--------------|--------------|

#### Insulation characteristics: Air clearances and creepage distances

|                      |                       |
|----------------------|-----------------------|
| Insulation           | Functional insulation |
| Overvoltage category | II                    |
| Pollution degree     | 2                     |

### 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)   | ≤ 25 V AC             |
| Operating voltage (DC)   | ≤ 60 V DC             |
| Nominal operating mode   | 100% operating factor |
| Current (Per path, 50°C) | ≤ 1 A                 |
| Current (Per path, 70°C) | ≤ 0.6 A               |

#### Air clearances and creepage distances

|                          |        |
|--------------------------|--------|
| Rated insulation voltage | 63 V   |
| Rated surge voltage      | 0.6 kV |

### Cable/line

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

#### 10X0.14 [PVC]

|                                 |                          |
|---------------------------------|--------------------------|
| UL AWM Style                    | 2464/1061                |
| Number of positions             | 10                       |
| Shielded                        | no                       |
| Cable type                      | 10X0.14 [PVC]            |
| Conductor type                  | Round cable set          |
| Conductor structure signal line | 7x 0.16 mm               |
| AWG signal line                 | 26                       |
| Conductor cross-section         | 10x 0.14 mm <sup>2</sup> |
| Wire diameter incl. insulation  | 1 mm ±0.03 mm            |
| External cable diameter         | 6.10 mm ±0.4 mm          |

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|   |  |
|---|--|
| Outer sheath, material                        | Semi-rigid PVC   |
| External sheath, color                        | gray   |
| Conductor material                            | Tin-plated Cu litz wires   |
| Cable resistance                              | $\leq 145 \Omega/\text{km}$ (20 °C)  |
| Insulation resistance                         | $\geq 20 \text{ M}\Omega \cdot \text{km}$ (20 °C)  |
| Smallest bending radius, fixed installation   | 52 mm  |
| Smallest bending radius, movable installation | 98 mm  |
| Dynamic load capacity (bending)               | Max. bending cycles: 5000  |
| Halogen-free                                  | no   |
| Flame resistance                              | IEC 60332-1-2 (raw cable)<br>VDE 0842, Part 332-1-2 (raw cable)<br>IEC 60332-3-22 (raw cable)<br>UL VW-1<br>CSA FT-1 |
| Resistance to oil                             | can withstand occasional splashes (raw cable)  |
| Cable type                                    | Splitting cable for two modules  |

## Connection data

### Field level

|                                  |                      |
|----------------------------------|----------------------|
| Connection in acc. with standard | IEC 60603-13         |
| Connection method                | IDC/FLK socket strip |
| Number of connections            | 2                    |
| Number of positions              | 14                   |
| Insertion/withdrawal cycles      | > 50                 |
| Pitch                            | 2.54 mm              |

### Controller level

|                                  |                      |
|----------------------------------|----------------------|
| Connection in acc. with standard | IEC 60603-13         |
| Connection method                | IDC/FLK socket strip |
| Number of connections            | 1                    |
| Number of positions              | 20                   |
| Insertion/withdrawal cycles      | > 50                 |
| Pitch                            | 2.54 mm              |

## Standards and regulations

### Air clearances and creepage distances

|                       |              |
|-----------------------|--------------|
| Standards/regulations | DIN EN 50178 |
|-----------------------|--------------|

## 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

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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-50   |
|  | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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