

# VIP-CAB-FLK20/OE/0,14/20,0M/S - Cable



2906424

<https://www.phoenixcontact.com/us/products/2906424>

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Assembled shielded round cable with additional shield connection and one 20-pos. molded socket strip (90° outlet) and an open end. At the open end, the wires are marked 1 to 20 and are fitted with ferrules, cable length: 20 m

## Your advantages

- 20-pos.
- 1:1 connection
- Open end at one end

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2906424       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 2 pc          |
| Product key                          | DK2AH4        |
| GTIN                                 | 4055626074825 |
| Weight per piece (including packing) | 1,862.9 g     |
| Weight per piece (excluding packing) | 1,828 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                                    | IP20                                     |
| 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 (DC) | ≤ 24 V DC             |
| Nominal operating mode | 100% operating factor |
| Current (Per path)     | ≤ 0.5 A               |

#### Air clearances and creepage distances

|                          |                    |
|--------------------------|--------------------|
| Rated insulation voltage | 50 V               |
| Rated surge voltage      | 0.5 kV (1.2/50 µs) |

### Cable/line

|                                 |                                |
|---------------------------------|--------------------------------|
| Cable length                    | 20 m                           |
| UL AWM Style                    | 2464/1061                      |
| Number of positions             | 20                             |
| Shielded                        | yes                            |
| Conductor type                  | Assembled shielded round cable |
| 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         | 7.70 mm ±0.3 mm                |
| Outer sheath, material          | Semi-rigid PVC                 |
| External sheath, color          | gray                           |
| Conductor material              | Tin-plated Cu litz wires       |
| Cable resistance                | ≤ 145 Ω/km (at 20 °C)          |
| Insulation resistance           | ≥ 20 MΩ*km (20 °C)             |

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|   |  |
|---|--|
| Smallest bending radius, fixed installation   | 80 mm  |
| Smallest bending radius, movable installation | 144 mm   |
| Dynamic load capacity (bending)               | Max. bending cycles: 5000 (at a radius of $\geq 18x$ 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                                    | Cable for one module   |

## Connection data

### Flat-ribbon cable connector

|                                  |                      |
|----------------------------------|----------------------|
| Connection in acc. with standard | IEC 60603-13         |
| Connection method                | IDC/FLK socket strip |
| Number of connections            | 1                    |
| Number of positions              | 20                   |
| Exit angle                       | 90 °                 |
| Insertion/withdrawal cycles      | > 200                |
| Pitch                            | 2.54 mm              |

### Controller level

|                     |   |
|---------------------|---|
| Connection method   | Single wires                                  |
| Number of positions | 20  |
| Note                | The wires are marked and fitted with ferrules |

## 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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## Classifications

### ECLASS

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

### 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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