

# VIP-CAB-FLK20/ 9,0M/S/SC057 - Cable



2906070

<https://www.phoenixcontact.com/us/products/2906070>

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Assembled shielded round cable with additional shield connection and two molded 20-pos. socket strips (1:1 connection). The cable has two 180° punched-on connectors, cable length: 9 m



The figure shows the version VIP-CAB-FLK20/ 6,0M/S/SC057

## Your advantages

- 20-pos.
- 1:1 connection

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2906070       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Product key                          | DK2AH2        |
| GTIN                                 | 4055626026060 |
| Weight per piece (including packing) | 897 g         |
| Weight per piece (excluding packing) | 897 g         |
| Country of origin                    | DE            |

## 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                    | 9 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)<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                                    | 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                       | 180 °                |
| Insertion/withdrawal cycles      | > 200                |
| Pitch                            | 2.54 mm              |

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