

VIP-CAB-FLK20/0,14/35,0M/S - Cable

2904559

<https://www.phoenixcontact.com/us/products/2904559>

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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 90° punched on connectors, cable length: 35 m



The figure shows the version VIP-CAB-FLK20/0,14/27,0M/S

Your advantages

- 20-pos.
- 1:1 connection

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2904559 |
| Packing unit | 1 pc |
| Minimum order quantity | 25 pc |
| Product key | DK2AH2 |
| GTIN | 4046356862066 |
| Weight per piece (including packing) | 3,170 g |
| Weight per piece (excluding packing) | 333.33 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 | 35 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 ² |
| 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 |

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Standards and regulations

Air clearances and creepage distances

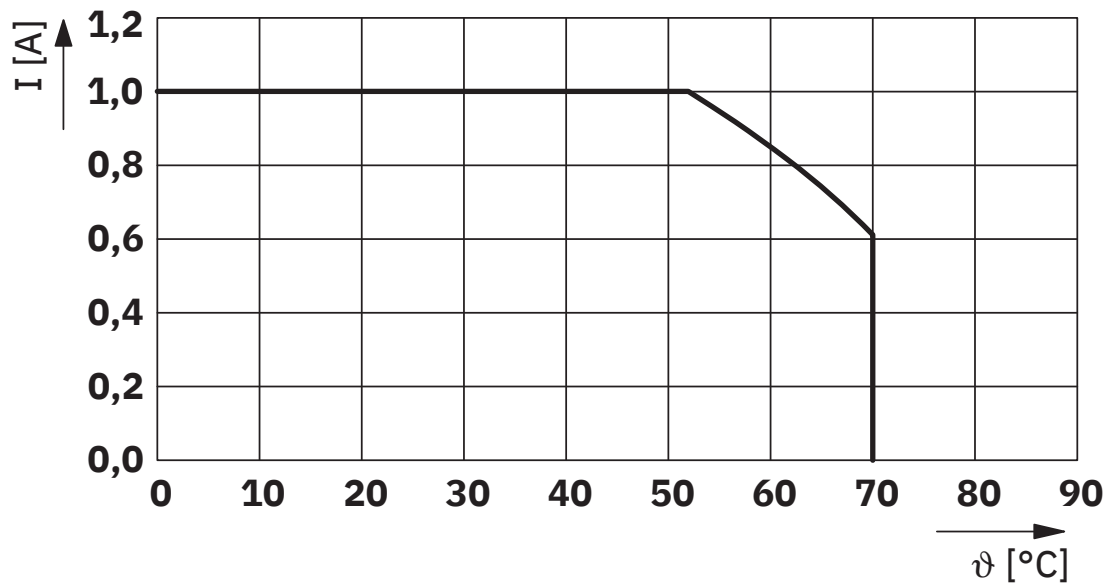
| | |
|-----------------------|--------------|
| Standards/regulations | DIN EN 50178 |
|-----------------------|--------------|

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