# CABLE-2FLK24/2FLK24/DV/10,0M/S - Cable

2906959

https://www.phoenixcontact.com/us/products/2906959

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Assembled shielded round cable; controller: Emerson Delta V S-Series; connection 1: IDC/FLK socket strip (2x 24-position); connection 2: IDC/FLK socket strip (2x 24-position); cable length: 10 m

## Commercial data

| | |
|---|---|
| Item number | 2906959 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | C421 |
| Product key | DK221K |
| GTIN | 4055626145112 |
| Weight per piece (including packing) | 1,883.8 g |
| Weight per piece (excluding packing) | 1,882.9 g |
| Customs tariff number | 85444290 |
| Country of origin | DE |

## 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) |

Supported controller: EMERSON DeltaV

| | |
|---|---|
| Suitable I/O card | SE4053S2B11 |
| | SE4083S2B11 |

### Cable/line

| | |
|---|---|
| Cable length | 10 m |

50X0.14 [PVC]

| | |
|---|---|
| UL AWM Style | 2464/1061 |
| Number of positions | 50 |
| Shielded | yes |
| Cable type | 50X0.14 [PVC] |
| Conductor type | Assembled shielded round cable |
| Conductor structure signal line | 7x 0.16 mm |
| AWG signal line | 26 |
| Conductor cross-section | 50x 0.14 mm² |
| Wire diameter incl. insulation | 1 mm ±0.03 mm |
| External cable diameter | 11.00 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) |

| | |
|---|---|
| Smallest bending radius, fixed installation | 114 mm |
| Smallest bending radius, movable installation | 205 mm |
| Dynamic load capacity (bending) | Max. bending cycles: 5000 (at a radius of ≥ 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

Connection 1

| | |
|---|---|
| Connection in acc. with standard | IEC 60603-13 (in compliance) |
| Connection method | IDC/FLK socket strip |
| Number of connections | 2 |
| Number of positions | 24 |
| Conductor cross-section AWG | 26 |
| Insertion/withdrawal cycles | > 50 |
| Pitch | 2.54 mm |

Connection 2

| | |
|---|---|
| Connection in acc. with standard | IEC 60603-13 (in compliance) |
| Connection method | IDC/FLK socket strip |
| Number of connections | 2 |
| Number of positions | 24 |
| Insertion/withdrawal cycles | > 50 |
| Pitch | 2.54 mm |

## Notes

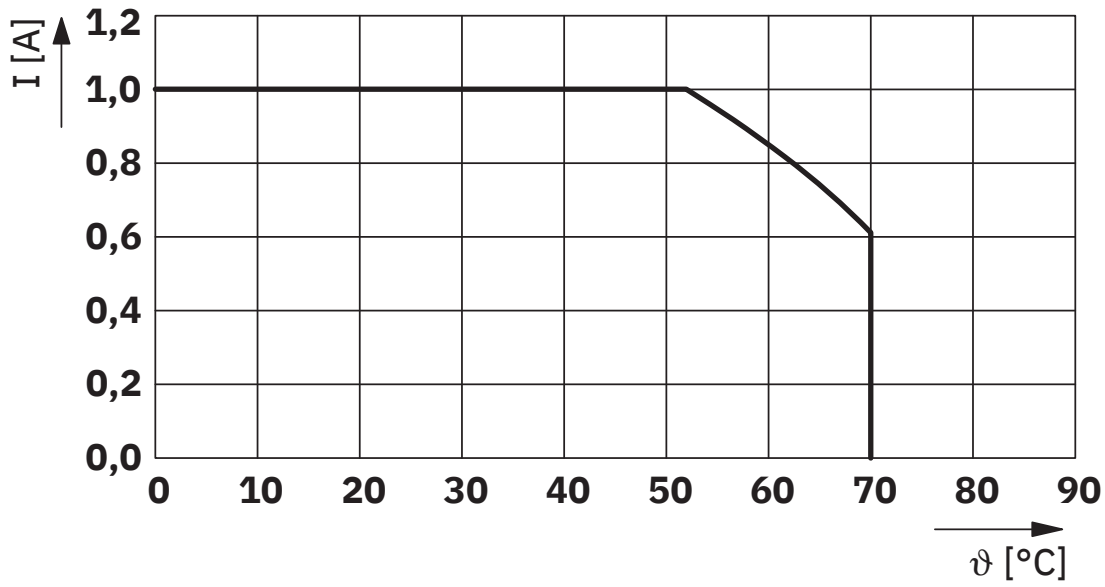
| | |
|---|---|
| Notes on operation | For proper use, the specifications of the installation directive (see Downloads) must be observed. For applications or use with third-party products, the specifications, and the safety and warning instructions of the respective third-party manufacturer must also be met. |

## Drawings

Connection diagram

| FLK24 X1 A | FLK24 X3 B | FLK24 X2 C | FLK24 X4 D | Conductor color |
|---|---|---|---|---|
| PIN 1 | PIN 1 | | | black |
| PIN 2 | PIN 2 | | | brown |
| PIN 3 | PIN 3 | | | red |
| PIN 4 | PIN 4 | | | orange |
| PIN 5 | PIN 5 | | | yellow |
| PIN 6 | PIN 6 | | | green |
| PIN 7 | PIN 7 | | | blue |
| PIN 8 | PIN 8 | | | violet |
| PIN 9 | PIN 9 | | | gray |
| PIN 10 | PIN 10 | | | white |
| PIN 11 | PIN 11 | | | white-black |
| PIN 12 | PIN 12 | | | white-brown |
| PIN 13 | PIN 13 | | | white-red |
| PIN 14 | PIN 14 | | | white-orange |
| PIN 15 | PIN 15 | | | white-yellow |
| PIN 16 | PIN 16 | | | white-green |
| PIN 17 | PIN 17 | | | white-blue |
| PIN 18 | PIN 18 | | | white-violet |
| PIN 19 | PIN 19 | | | white-gray |
| PIN 20 | PIN 20 | | | brown-black |
| PIN 21 | PIN 21 | | | brown-red |
| PIN 22 | PIN 22 | | | brown-orange |
| PIN 23 | PIN 23 | | | brown-yellow |
| PIN 24 | PIN 24 | | | brown-green |
| | | PIN 1 | PIN 1 | brown-blue |
| | | PIN 2 | PIN 2 | brown-violet |
| | | PIN 3 | PIN 3 | brown-gray |
| | | PIN 4 | PIN 4 | brown-white |
| | | PIN 5 | PIN 5 | green-black |
| | | PIN 6 | PIN 6 | green-brown |
| | | PIN 7 | PIN 7 | green-red |
| | | PIN 8 | PIN 8 | green-orange |
| | | PIN 9 | PIN 9 | green-blue |
| | | PIN 10 | PIN 10 | green-violet |
| | | PIN 11 | PIN 11 | green-gray |
| | | PIN 12 | PIN 12 | green-white |
| | | PIN 13 | PIN 13 | yellow-black |
| | | PIN 14 | PIN 14 | yellow-brown |
| | | PIN 15 | PIN 15 | yellow-red |
| | | PIN 16 | PIN 16 | yellow-orange |
| | | PIN 17 | PIN 17 | yellow-blue |
| | | PIN 18 | PIN 18 | yellow-violet |
| | | PIN 19 | PIN 19 | yellow-gray |
| | | PIN 20 | PIN 20 | yellow-white |
| | | PIN 21 | PIN 21 | gray-black |
| | | PIN 22 | PIN 22 | gray-brown |
| | | PIN 23 | PIN 23 | gray-red |
| | | PIN 24 | PIN 24 | gray-orange |

Diagram




Maximum permissible current per path in uncoiled state

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2906959

**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 $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 125 V | 1 A | - | - |

**cUL Listed**
Approval ID: E238705

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 125 V | 1 A | - | - |

## Classifications

### ECLASS

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

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC000237 |

### UNSPSC

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

## 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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