

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



2906954

<https://www.phoenixcontact.com/us/products/2906954>

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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: 2 m



## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2906954                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C421                           |
| Product key                          | DK221K                         |
| GTIN                                 | 4055626144863                  |
| Weight per piece (including packing) | 381 g                          |
| Weight per piece (excluding packing) | 385.6 g                        |
| Customs tariff number                | 85444290                       |
| Country of origin                    | DE                             |

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## 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 | 2 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 mm <sup>2</sup>       |
| 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)             |

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|   |  |
|---|--|
| 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 $\geq 18x$ 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

### 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. |
|--------------------|--|

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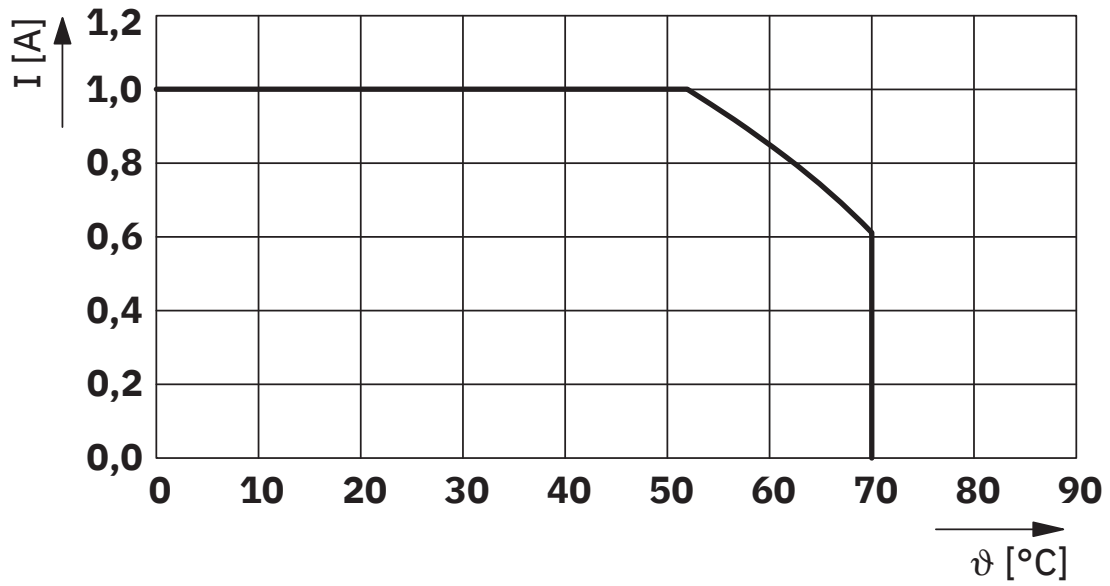
<https://www.phoenixcontact.com/us/products/2906954>

## Drawings

Connection diagram

| FLK24<br>X1 A | FLK24<br>X3 B | FLK24<br>X2 C | FLK24<br>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

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2906954>



### 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 $\text{mm}^2$ |
|-------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine |                       |                       |                   |                             |
|       | 125 V                 | 1 A                   | -                 | -                           |



### cUL Listed

Approval ID: E238705

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

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## Classifications

### ECLASS

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

### ETIM

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

### 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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