

## Cable - FLK 16/14/DV-IN/100 - 2300559

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Round cable set; controller: Emerson Delta V; connection 1: IDC/FLK socket strip (1x 16-position); connection 2: IDC/FLK socket strip (1x 14-position); cable length: 1 m

### Your advantages

- The DeltaV system can be used to install the process wiring via "mass termination blocks" (MTBs) using flat-ribbon cable plugs
- For digital modules with 16-pos. MTB for connection to PLC-INTERFACE

### Key Commercial Data

|              |               |
|--------------|---------------|
| Packing unit | 1 pc          |
| GTIN         |               |
| GTIN         | 4017918897352 |

### Technical data

#### Ambient conditions

|   |  |
|---|--|
| Ambient temperature (operation)         | -40 °C ... 70 °C (fixed installation)    |
|   | -10 °C ... 70 °C (flexible installation) |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C                         |
| Maximum altitude                        | ≤ 2000 m                                 |
| Degree of protection                    | IP00                                     |
|   | ≥ IP54 (Installation location)           |

#### General

|   |                      |
|---|----------------------|
| Max. permissible operating voltage      | 25 V AC              |
|   | 60 V DC              |
| Max. current carrying capacity per path | 1 A (50 °C)          |
|   | 0.6 A (70 °C)        |
| Length of cable                         | 1 m                  |
| External cable diameter                 | 6.4 mm ±0.4 mm       |
| Single wire, cross section              | 0.14 mm <sup>2</sup> |

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## Technical data

### General

|   |   |
|---|---|
| Single wire, cross section [AWG]              | 26  |
| Single wire, material                         | Cu tin-plated                                       |
| Wire diameter incl. insulation                | 1 mm ±0.03 mm                                       |
| Smallest bending radius, fixed installation   | 55 mm   |
| Smallest bending radius, movable installation | 104 mm  |
| Bending cycles                                | 5000 (at a radius of ≥ 15x outside diameter)        |
| Cable, preassembly                            | Insulation displacement, IEC 60352-4/DIN EN 60352-4 |
| Shielding                                     | no  |
| Cable insulation resistance                   | ≥ 20 MΩ/km (20 °C)                                  |
| Cable resistance                              | ≤ 145 Ω/km (20 °C)                                  |
| Outer sheath, material                        | Semi-rigid PVC                                      |
| External sheath, color                        | gray  |
| Nominal operating mode                        | 100% operating factor                               |

### Connection data

|                                  |                      |
|----------------------------------|----------------------|
| Connection name                  | Field level          |
| Connection in acc. with standard | IEC 60603-13         |
| Connection method                | IDC/FLK socket strip |
| Number of connections            | 1                    |
| Number of positions              | 14                   |
| Insertion/withdrawal cycles      | > 50                 |
| Pitch                            | 2.54 mm              |

### Connection data 2

|                                  |                      |
|----------------------------------|----------------------|
| Connection name                  | Controller level     |
| Connection in acc. with standard | IEC 60603-13         |
| Connection method                | IDC/FLK socket strip |
| Number of connections            | 1                    |
| Number of positions              | 16                   |
| Insertion/withdrawal cycles      | > 50                 |
| Pitch                            | 2.54 mm              |

### Standards and Regulations

|                       |                                       |
|-----------------------|---------------------------------------|
| Flame resistance      | UL VW-1                               |
|                       | CSA FT-1                              |
|                       | IEC 60332-1-2                         |
|                       | VDE 0842, Part 332-1-2                |
|                       | IEC 60332-3-22                        |
| Resistance to oil     | against occasional splashes           |
| Gasoline resistance   | against occasional splashes           |
| Designation           | Air clearances and creepage distances |
| Standards/regulations | DIN EN 50178                          |

## Cable - FLK 16/14/DV-IN/100 - 2300559

### Technical data

#### Standards and Regulations

|                          |                       |
|--------------------------|-----------------------|
| Rated insulation voltage | 63 V                  |
| Rated surge voltage      | 0.6 kV                |
| Insulation               | Functional insulation |
| Pollution degree         | 2                     |
| Overvoltage category     | II                    |

#### Supported controller

|                     |                |
|---------------------|----------------|
| Controller          | Emerson DeltaV |
| - suitable I/O card | VE4001S2T1B3   |
|                     | VE4001S2T2B3   |

#### Color code

|   |  |
|---|--|
| Connector 1 = connector 2 (optional) = wire color | IDC/FLK16 (1) = IDC/FLK14 (1) = black          |
|   | IDC/FLK16 (2) = IDC/FLK14 (9) = brown          |
|   | IDC/FLK16 (3) = IDC/FLK14 (2) = red            |
|   | IDC/FLK16 (4) = IDC/FLK14 (9) = orange         |
|   | IDC/FLK16 (5) = IDC/FLK14 (3) = yellow         |
|   | IDC/FLK16 (6) = IDC/FLK14 (9) = green          |
|   | IDC/FLK16 (7) = IDC/FLK14 (4) = blue           |
|   | IDC/FLK16 (8) = IDC/FLK14 (11) = violet        |
|   | IDC/FLK16 (9) = IDC/FLK14 (5) = gray           |
|   | IDC/FLK16 (10) = IDC/FLK14 (11) = white        |
|   | IDC/FLK16 (11) = IDC/FLK14 (6) = white-black   |
|   | IDC/FLK16 (12) = IDC/FLK14 (11) = white-brown  |
|   | IDC/FLK16 (13) = IDC/FLK14 (7) = white-red     |
|   | IDC/FLK16 (14) = IDC/FLK14 (13) = white-orange |
|   | IDC/FLK16 (15) = IDC/FLK14 (8) = white-yellow  |
|   | IDC/FLK16 (16) = IDC/FLK14 (13) = white-green  |

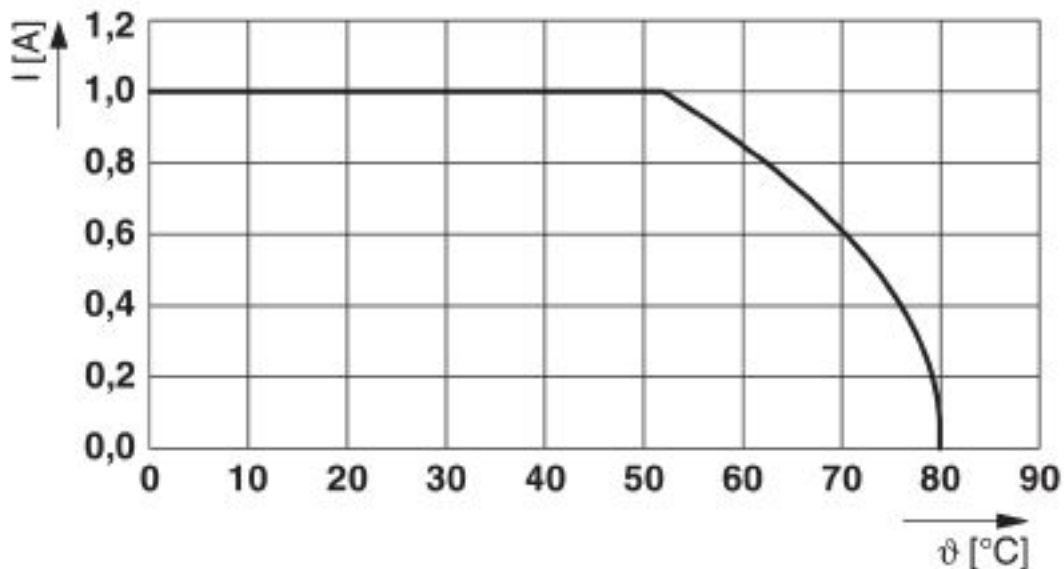
#### Environmental Product Compliance

|            |   |
|------------|---|
| China RoHS | Environmentally Friendly Use Period = 50 years  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

### Drawings

# Cable - FLK 16/14/DV-IN/100 - 2300559

Diagram



Maximum permissible current per path in uncoiled state

## Classifications

### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27242220 |
| eCl@ss 4.0    | 27060300 |
| eCl@ss 4.1    | 27060300 |
| eCl@ss 5.0    | 27242200 |
| eCl@ss 5.1    | 27242200 |
| eCl@ss 6.0    | 27249200 |
| eCl@ss 7.0    | 27249205 |
| eCl@ss 8.0    | 27249205 |
| eCl@ss 9.0    | 27242220 |

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000237 |
| ETIM 3.0 | EC000237 |
| ETIM 4.0 | EC000237 |
| ETIM 5.0 | EC000237 |
| ETIM 6.0 | EC000237 |
| ETIM 7.0 | EC000237 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 26121620 |
| UNSPSC 7.0901 | 26121620 |
| UNSPSC 11     | 26121620 |

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## Classifications

### UNSPSC

|              |          |
|--------------|----------|
| UNSPSC 12.01 | 26121620 |
| UNSPSC 13.2  | 26121620 |
| UNSPSC 18.0  | 26121620 |
| UNSPSC 19.0  | 26121620 |
| UNSPSC 20.0  | 26121620 |
| UNSPSC 21.0  | 26121620 |

## Approvals

### Approvals

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#### Approvals


UL Listed / cUL Listed / EAC / cULus Listed


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#### Ex Approvals

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### Approval details

|                    |   |   |               |
|--------------------|---|---|---------------|
| UL Listed          |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 238705 |
|                    |   |   |               |
| Nominal voltage UN | 125 V   |   |               |
| Nominal current IN | 1 A   |   |               |

|                    |   |   |               |
|--------------------|---|---|---------------|
| cUL Listed         |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 238705 |
|                    |   |   |               |
| Nominal voltage UN | 125 V   |   |               |
| Nominal current IN | 1 A   |   |               |

|     |   |                         |
|-----|---|-------------------------|
| EAC |  | RU*-<br>DE.HB*35.B00385 |
|-----|---|-------------------------|

|              |   |
|--------------|---|
| cULus Listed |  |
|--------------|---|

## Cable - FLK 16/14/DV-IN/100 - 2300559

### Accessories

#### Accessories

#### Marker carrier cable

Cable marker carrier - KME - 0807083



Cable marker carrier, white, unlabeled, mounting type: Assembly with cable binders, cable diameter: > 5 mm, lettering field size: 20 mm x 8 mm

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