

# Cable - CABLE-FLK50/0,14/HF/ 1,0M - 2314147


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Assembled, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 1 m



## Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 1 pc  |
| GTIN         | <br>4 046356 099707 |
| GTIN         | 4046356099707   |

## 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                 | 10.3 mm ±0.4 mm      |
| Single wire, cross section              | 0.14 mm <sup>2</sup> |
| Single wire, cross section [AWG]        | 26                   |
| Single wire, number of litz wires       | 7                    |
| Single wire, material                   | Cu tin-plated        |

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## Technical data

### General

|   |   |
|---|---|
| Wire diameter incl. insulation                | 1 mm ±0.03 mm                                       |
| Smallest bending radius, fixed installation   | 86 mm   |
| Smallest bending radius, movable installation | 161 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                        | halogen-free (type 2)                               |
| 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              | 50                   |
| 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              | 50                   |
| Insertion/withdrawal cycles      | > 50                 |
| Pitch                            | 2.54 mm              |

### Standards and Regulations

|                          |                                       |
|--------------------------|---------------------------------------|
| Flame resistance         | 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                          |
| Rated insulation voltage | 63 V                                  |
| Rated surge voltage      | 0.6 kV                                |
| Insulation               | Functional insulation                 |
| Pollution degree         | 2                                     |

# Cable - CABLE-FLK50/0,14/HF/ 1,0M - 2314147

## Technical data

### Standards and Regulations

|                      |    |
|----------------------|----|
| Overvoltage category | II |
|----------------------|----|

### Supported controller

|                     |  |
|---------------------|--|
| Controller          | SIEMENS S7-300 / ET 200 M              |
| - suitable I/O card | CPU 313C-2DP                           |
|                     | CPU 314C-2PtP                          |
|                     | 6ES7 321-1BL00-0AA0                    |
|                     | 6ES7 322-1BL00-0AA0                    |
|                     | 6ES7 323-1BL00-0AA0                    |
|                     | 6ES7 331-7NF00-0AB0                    |
|                     | 6ES7 331-7PF01-0AB0                    |
|                     | 6ES7 331-7PF11-0AB0                    |
|                     | 6ES7 350-2AH01-0AE0                    |
|                     | 6ES7 357-4AH01-0AE0                    |
|                     | CPU 314C-2DP                           |
|                     | 6ES7 332-5HF00-0AB0                    |
|                     | 6ES7 331-7NF10-0AB0                    |
|                     | 6ES7 331-1KF01-0AB0                    |
|                     | CPU 313C                               |
|                     | CPU 313C-2PtP                          |
| Controller          | SIEMENS S7-400                         |
| - suitable I/O card | 6ES7 421-1BL01-0AA0                    |
|                     | 6ES7 421-7BH01-0AB0                    |
|                     | 6ES7 421-7DH00-0AA0                    |
|                     | 6ES7 422-1BL00-0AA0                    |
|                     | 6ES7 422-7BL00-0AB0                    |
|                     | 6ES7 431-0HH0-0AB0                     |
|                     | 6ES7 431-1KF00-0AB0                    |
|                     | 6ES7 431-1KF10-0AB0                    |
|                     | 6ES7 431-1KF20-0AB0                    |
|                     | 6ES7 431-7KF00-0AB0                    |
|                     | 6ES7 431-7KF10-0AB0                    |
|                     | 6ES7 431-7QH00-0AB0                    |
|                     | 6ES7 432-1HF00-0AB0                    |
| Controller          | Schneider Electric Modicon TSX QUANTUM |
| - suitable I/O card | DDI 353                                |
|                     | DDI 841                                |
|                     | DDI 853                                |
|                     | DAI 340                                |
|                     | DAI 353                                |
|                     | DAI 440                                |

## Cable - CABLE-FLK50/0,14/HF/ 1,0M - 2314147

### Technical data

#### Supported controller

|                     |                             |
|---------------------|-----------------------------|
|                     | DAI 453                     |
|                     | DDO 353                     |
|                     | DDM 390                     |
|                     | ACI 030                     |
|                     | ACI 040                     |
|                     | ATI 030                     |
|                     | ARI 030                     |
|                     | AVI 030                     |
|                     | ACO 020                     |
|                     | ACO 130                     |
|                     | AVO 020                     |
|                     | EHC 105                     |
|                     | EHC 202                     |
| Controller          | ALLEN-BRADLEY ControlLogix  |
| - suitable I/O card | 1756-IA16I                  |
|                     | 1756-IB16D                  |
|                     | 1756-IB16I                  |
|                     | 1756-IB32                   |
|                     | 1756-IH16I                  |
|                     | 1756-OB32                   |
|                     | 1756-IF8                    |
|                     | 1756-IF16                   |
|                     | 1756-HSC                    |
|                     | 1756-M02AE                  |
| Controller          | ALLEN-BRADLEY PLC 5         |
| - suitable I/O card | 1771 IBN                    |
|                     | 1771 OBN                    |
| Controller          | HONEYWELL Experion PKS C200 |
| - suitable I/O card | TC-IDK 161                  |
|                     | TC-IDX 161                  |
|                     | TC-IDJ 161                  |
|                     | TC-IDD 321                  |
|                     | TC-ODD 321                  |
|                     | TC-IAH 161                  |
| Controller          | ALLEN-BRADLEY SLC 500       |
| - suitable I/O card | 1746 OA16                   |
|                     | 1746 OW16                   |

#### Color code

|   |                                       |
|---|---------------------------------------|
| Connector 1 = connector 2 (optional) = wire color | IDC/FLK50 (1) = IDC/FLK50 (1) = black |
|   | IDC/FLK50 (2) = IDC/FLK50 (2) = brown |

# Cable - CABLE-FLK50/0,14/HF/ 1,0M - 2314147

## Technical data

### Color code

|  |   |
|--|---|
|  | IDC/FLK50 (3) = IDC/FLK50 (3) = red             |
|  | IDC/FLK50 (4) = IDC/FLK50 (4) = orange          |
|  | IDC/FLK50 (5) = IDC/FLK50 (5) = yellow          |
|  | IDC/FLK50 (6) = IDC/FLK50 (6) = green           |
|  | IDC/FLK50 (7) = IDC/FLK50 (7) = blue            |
|  | IDC/FLK50 (8) = IDC/FLK50 (8) = violet          |
|  | IDC/FLK50 (9) = IDC/FLK50 (9) = gray            |
|  | IDC/FLK50 (10) = IDC/FLK50 (10) = white         |
|  | IDC/FLK50 (11) = IDC/FLK50 (11) = white-black   |
|  | IDC/FLK50 (12) = IDC/FLK50 (12) = white-brown   |
|  | IDC/FLK50 (13) = IDC/FLK50 (13) = white-red     |
|  | IDC/FLK50 (14) = IDC/FLK50 (14) = white-orange  |
|  | IDC/FLK50 (15) = IDC/FLK50 (15) = white-yellow  |
|  | IDC/FLK50 (16) = IDC/FLK50 (16) = white-green   |
|  | IDC/FLK50 (17) = IDC/FLK50 (17) = white-blue    |
|  | IDC/FLK50 (18) = IDC/FLK50 (18) = white-violet  |
|  | IDC/FLK50 (19) = IDC/FLK50 (19) = white-gray    |
|  | IDC/FLK50 (20) = IDC/FLK50 (20) = brown-black   |
|  | IDC/FLK50 (21) = IDC/FLK50 (21) = brown-red     |
|  | IDC/FLK50 (22) = IDC/FLK50 (22) = brown-orange  |
|  | IDC/FLK50 (23) = IDC/FLK50 (23) = brown-yellow  |
|  | IDC/FLK50 (24) = IDC/FLK50 (24) = brown-green   |
|  | IDC/FLK50 (25) = IDC/FLK50 (25) = brown-blue    |
|  | IDC/FLK50 (26) = IDC/FLK50 (26) = brown-violet  |
|  | IDC/FLK50 (27) = IDC/FLK50 (27) = brown-gray    |
|  | IDC/FLK50 (28) = IDC/FLK50 (28) = brown-white   |
|  | IDC/FLK50 (29) = IDC/FLK50 (29) = green-black   |
|  | IDC/FLK50 (30) = IDC/FLK50 (30) = green-brown   |
|  | IDC/FLK50 (31) = IDC/FLK50 (31) = green-red     |
|  | IDC/FLK50 (32) = IDC/FLK50 (32) = green-orange  |
|  | IDC/FLK50 (33) = IDC/FLK50 (33) = green-blue    |
|  | IDC/FLK50 (34) = IDC/FLK50 (34) = green-violet  |
|  | IDC/FLK50 (35) = IDC/FLK50 (35) = green-gray    |
|  | IDC/FLK50 (36) = IDC/FLK50 (36) = green-white   |
|  | IDC/FLK50 (37) = IDC/FLK50 (37) = yellow-black  |
|  | IDC/FLK50 (38) = IDC/FLK50 (38) = yellow-brown  |
|  | IDC/FLK50 (39) = IDC/FLK50 (39) = yellow-red    |
|  | IDC/FLK50 (40) = IDC/FLK50 (40) = yellow-orange |
|  | IDC/FLK50 (41) = IDC/FLK50 (41) = yellow-blue   |
|  | IDC/FLK50 (42) = IDC/FLK50 (42) = yellow-violet |

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## Technical data

### Color code

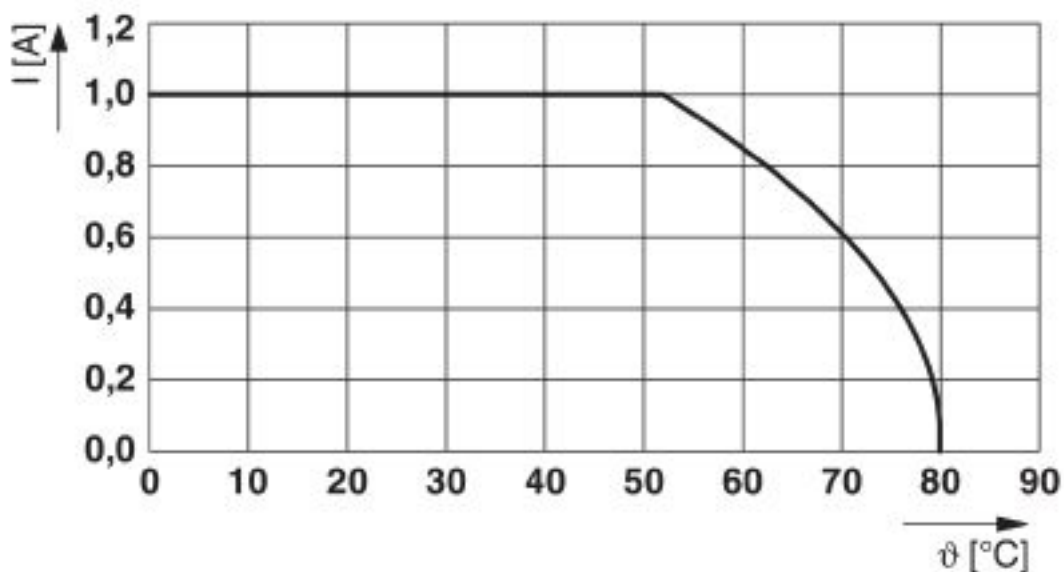
|  |  |
|--|--|
|  | IDC/FLK50 (43) = IDC/FLK50 (43) = yellow-gray  |
|  | IDC/FLK50 (44) = IDC/FLK50 (44) = yellow-white |
|  | IDC/FLK50 (45) = IDC/FLK50 (45) = gray-black   |
|  | IDC/FLK50 (46) = IDC/FLK50 (46) = gray-brown   |
|  | IDC/FLK50 (47) = IDC/FLK50 (47) = gray-red     |
|  | IDC/FLK50 (48) = IDC/FLK50 (48) = gray-orange  |
|  | IDC/FLK50 (49) = IDC/FLK50 (49) = gray-yellow  |
|  | IDC/FLK50 (50) = IDC/FLK50 (50) = gray-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

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 |

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## Classifications

### eCl@ss

|            |          |
|------------|----------|
| 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 |
| 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

# Cable - CABLE-FLK50/0,14/HF/ 1,0M - 2314147

## Approvals

|                    |  |   |               |
|--------------------|--|---|---------------|
| 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 C-<br>DE.A*30.B00767 |
|-----|--|-------------------------|

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

## 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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