

## Cable - CABLE-D50SUB/S/S/200/KONFEK/S - 2305703

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Assembled shielded round cable; connection 1: D-SUB pin strip (1x 50-position); connection 2: D-SUB pin strip (1x 50-position); cable length: 2 m



### Key Commercial Data

|              |               |
|--------------|---------------|
| Packing unit | 1 pc          |
| GTIN         |               |
| GTIN         | 4046356012041 |

### 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                    | IP20                                     |
|   | ≥ IP54 (Installation location)           |

#### General

|   |                       |
|---|-----------------------|
| Max. permissible operating voltage      | 25 V AC               |
|   | 60 V DC               |
| Max. current carrying capacity per path | 2 A (see to derating) |
| Length of cable                         | 2 m                   |
| External cable diameter                 | 12.4 mm ±0.5 mm       |
| Single wire, cross section              | 0.25 mm <sup>2</sup>  |
| Single wire, cross section [AWG]        | 24                    |
| Single wire, number of litz wires       | 14                    |
| Single wire, material                   | Cu uninsulated        |
| Wire diameter incl. insulation          | 1.2 mm ±0.05 mm       |

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### Technical data

#### General

|   |  |
|---|--|
| Smallest bending radius, fixed installation   | 106 mm   |
| Smallest bending radius, movable installation | 200 mm   |
| Bending cycles                                | 5000 (at a radius of $\geq 15x$ outside diameter)  |
| Shielding                                     | yes  |
|   | Tinned copper-braided shield, approx. 85% covering |
| Cable insulation resistance                   | $\geq 20 \text{ M}\Omega/\text{km}$ (at 20 °C)     |
| Cable resistance                              | $\leq 80 \text{ }\Omega/\text{km}$ (at 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 method           | D-SUB pin strip |
| Screw thread                | UNC 4-40        |
| Number of connections       | 1               |
| Number of positions         | 50              |
| Torque                      | 0.2 Nm          |
| Insertion/withdrawal cycles | > 200           |

#### Connection data 2

|                             |                  |
|-----------------------------|------------------|
| Connection name             | Controller level |
| Connection method           | D-SUB pin strip  |
| Number of connections       | 1                |
| Number of positions         | 50               |
| Torque                      | 0.2 Nm           |
| Insertion/withdrawal cycles | > 200            |

#### 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           |
| Connection in acc. with standard | CUL                                   |
| Designation                      | Air clearances and creepage distances |
| Standards/regulations            | DIN EN 50178                          |
| Rated insulation voltage         | 125 V                                 |
| Rated surge voltage              | 1.2 kV                                |
| Insulation                       | Functional insulation                 |

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## Technical data

### Standards and Regulations

|                      |    |
|----------------------|----|
| Pollution degree     | 2  |
| Overvoltage category | II |

### Supported controller

|            |           |
|------------|-----------|
| Controller | universal |
|------------|-----------|

### Color code

|   |  |
|---|--|
| Connector 1 = connector 2 (optional) = wire color | D-SUB50 (1) = D-SUB50 (1) = white          |
|   | D-SUB50 (2) = D-SUB50 (2) = brown          |
|   | D-SUB50 (3) = D-SUB50 (3) = green          |
|   | D-SUB50 (4) = D-SUB50 (4) = yellow         |
|   | D-SUB50 (5) = D-SUB50 (5) = gray           |
|   | D-SUB50 (6) = D-SUB50 (6) = pink           |
|   | D-SUB50 (7) = D-SUB50 (7) = blue           |
|   | D-SUB50 (8) = D-SUB50 (8) = red            |
|   | D-SUB50 (9) = D-SUB50 (9) = black          |
|   | D-SUB50 (10) = D-SUB50 (10) = violet       |
|   | D-SUB50 (11) = D-SUB50 (11) = gray-pink    |
|   | D-SUB50 (12) = D-SUB50 (12) = red-blue     |
|   | D-SUB50 (13) = D-SUB50 (13) = white-green  |
|   | D-SUB50 (14) = D-SUB50 (14) = brown-green  |
|   | D-SUB50 (15) = D-SUB50 (15) = white-yellow |
|   | D-SUB50 (16) = D-SUB50 (16) = yellow-brown |
|   | D-SUB50 (17) = D-SUB50 (17) = white-gray   |
|   | D-SUB50 (18) = D-SUB50 (18) = gray-brown   |
|   | D-SUB50 (19) = D-SUB50 (19) = white-pink   |
|   | D-SUB50 (20) = D-SUB50 (20) = pink-brown   |
|   | D-SUB50 (21) = D-SUB50 (21) = white-blue   |
|   | D-SUB50 (22) = D-SUB50 (22) = brown-blue   |
|   | D-SUB50 (23) = D-SUB50 (23) = white-red    |
|   | D-SUB50 (24) = D-SUB50 (24) = brown-red    |
|   | D-SUB50 (25) = D-SUB50 (25) = white-black  |
|   | D-SUB50 (26) = D-SUB50 (26) = brown-black  |
|   | D-SUB50 (27) = D-SUB50 (27) = gray-green   |
|   | D-SUB50 (28) = D-SUB50 (28) = yellow-gray  |
|   | D-SUB50 (29) = D-SUB50 (29) = pink-green   |
|   | D-SUB50 (30) = D-SUB50 (30) = yellow-pink  |
|   | D-SUB50 (31) = D-SUB50 (31) = green-blue   |
|   | D-SUB50 (32) = D-SUB50 (32) = yellow-blue  |
|   | D-SUB50 (33) = D-SUB50 (33) = green-red    |
|   | D-SUB50 (34) = D-SUB50 (34) = yellow-red   |
|   | D-SUB50 (35) = D-SUB50 (35) = green-black  |

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### Technical data

#### Color code

|  |  |
|--|--|
|  | D-SUB50 (36) = D-SUB50 (36) = yellow-black       |
|  | D-SUB50 (37) = D-SUB50 (37) = gray-blue          |
|  | D-SUB50 (38) = D-SUB50 (38) = pink-blue          |
|  | D-SUB50 (39) = D-SUB50 (39) = gray-red           |
|  | D-SUB50 (40) = D-SUB50 (40) = pink-red           |
|  | D-SUB50 (41) = D-SUB50 (41) = gray-black         |
|  | D-SUB50 (42) = D-SUB50 (42) = pink-black         |
|  | D-SUB50 (43) = D-SUB50 (43) = blue-black         |
|  | D-SUB50 (44) = D-SUB50 (44) = red-black          |
|  | D-SUB50 (45) = D-SUB50 (45) = white-brown-black  |
|  | D-SUB50 (46) = D-SUB50 (46) = yellow-green-black |
|  | D-SUB50 (47) = D-SUB50 (47) = gray-pink-black    |
|  | D-SUB50 (48) = D-SUB50 (48) = blue-red-black     |
|  | D-SUB50 (49) = D-SUB50 (49) = white-green-black  |
|  | D-SUB50 (50) = D-SUB50 (50) = green-brown-black  |

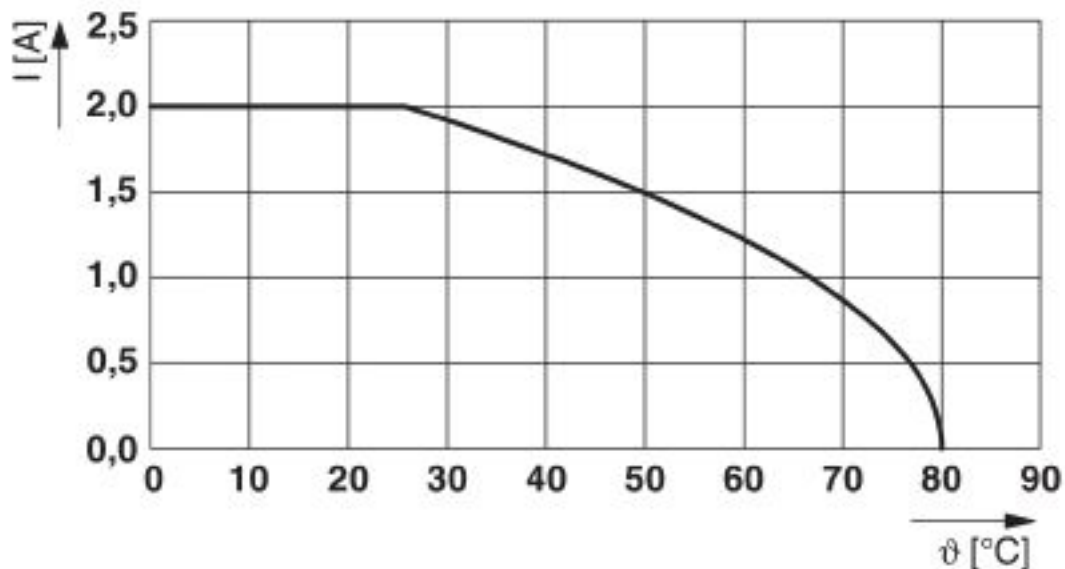
#### Environmental Product Compliance

|            |   |
|------------|---|
| REACH SVHC | Lead 7439-92-1  |
| China RoHS | Environmentally Friendly Use Period = 50 years  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

### Drawings

## Cable - CABLE-D50SUB/S/S/200/KONFEK/S - 2305703

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


CSA / UL Recognized / cUL Recognized / EAC / cULus Recognized


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### Ex Approvals

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### Approval details


|                    |   |   |          |
|--------------------|---|---|----------|
| CSA                |  | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 70002966 |
| Nominal voltage UN |   | 125 V   |          |
| Nominal current IN |   | 1 A   |          |


|                    |   |   |               |
|--------------------|---|---|---------------|
| UL Recognized      |  | <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 |   | 2 A   |               |

|                    |   |   |               |
|--------------------|---|---|---------------|
| cUL Recognized     |  | <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 |   | 2 A   |               |

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### Approvals

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

|                  |   |
|------------------|---|
| cULus Recognized |  |
|------------------|---|

### 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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