

# CABLE-D37SUB/B/S/ 50/KONFEK/S - Cable



2302191

<https://www.phoenixcontact.com/us/products/2302191>

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Assembled shielded round cable; connection 1: D-SUB socket strip (1x 37-position); connection 2: D-SUB pin strip (1x 37-position); cable length: 0.5 m

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 2302191             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | C421                |
| Product key                          | CK2135              |
| Catalog page                         | Page 570 (C-5-2019) |
| GTIN                                 | 4017918894733       |
| Weight per piece (including packing) | 201 g               |
| Weight per piece (excluding packing) | 198.2 g             |
| Customs tariff number                | 85444290            |
| Country of origin                    | HU                  |

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## Technical data

### Product properties

|              |              |
|--------------|--------------|
| Product type | System cable |
|--------------|--------------|

### Environmental and real-life conditions

#### Ambient conditions

|  |   |
|--|---|
| Degree of protection                         | IP20  |
| Degree of protection (Installation location) | ≥ IP54 (Installation location)  |
| Ambient temperature (operation)              | -40 °C ... 70 °C (fixed installation)<br>-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)     | ≤ 2 A (Uncoiled, see derating) |

### Cable/line

|              |       |
|--------------|-------|
| Cable length | 0.5 m |
|--------------|-------|

#### 37X0.25 [PVC]

|   |  |
|---|--|
| Number of positions                           | 37   |
| Shielded                                      | yes  |
| Cable type                                    | 37X0.25 [PVC]                                |
| Conductor type                                | Assembled shielded round cable               |
| Conductor structure signal line               | 14x 0.15 mm                                  |
| AWG signal line                               | 24   |
| Conductor cross section                       | 37x 0.25 mm <sup>2</sup>                     |
| Wire diameter incl. insulation                | 1.2 mm ±0.05 mm                              |
| External cable diameter                       | 10.8 mm ±0.5 mm                              |
| Outer sheath, material                        | Semi-rigid PVC                               |
| External sheath, color                        | gray   |
| Conductor material                            | Bare Cu litz wires                           |
| Cable resistance                              | ≤ 80 Ω/km (at 20 °C)                         |
| Insulation resistance                         | ≥ 20 MΩ*km (at 20 °C)                        |
| Smallest bending radius, fixed installation   | 90 mm  |
| Smallest bending radius, movable installation | 170 mm                                       |
| Max. bending cycles                           | 5000 (at a radius of ≥ 15x outside diameter) |
| Halogen-free                                  | no   |
|   | IEC 60332-1-2 (raw cable)                    |

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|                   |   |
|-------------------|---|
| Flame resistance  | 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) |

## color code

|              |                             |
|--------------|-----------------------------|
| D-SUB37 (1)  | D-SUB37 (1) = white         |
| D-SUB37 (2)  | D-SUB37 (2) = brown         |
| D-SUB37 (3)  | D-SUB37 (3) = green         |
| D-SUB37 (4)  | D-SUB37 (4) = yellow        |
| D-SUB37 (5)  | D-SUB37 (5) = gray          |
| D-SUB37 (6)  | D-SUB37 (6) = pink          |
| D-SUB37 (7)  | D-SUB37 (7) = blue          |
| D-SUB37 (8)  | D-SUB37 (8) = red           |
| D-SUB37 (9)  | D-SUB37 (9) = black         |
| D-SUB37 (10) | D-SUB37 (10) = violet       |
| D-SUB37 (11) | D-SUB37 (11) = gray-pink    |
| D-SUB37 (12) | D-SUB37 (12) = red-blue     |
| D-SUB37 (13) | D-SUB37 (13) = white-green  |
| D-SUB37 (14) | D-SUB37 (14) = brown-green  |
| D-SUB37 (15) | D-SUB37 (15) = white-yellow |
| D-SUB37 (16) | D-SUB37 (16) = yellow-brown |
| D-SUB37 (17) | D-SUB37 (17) = white-gray   |
| D-SUB37 (18) | D-SUB37 (18) = gray-brown   |
| D-SUB37 (19) | D-SUB37 (19) = white-pink   |
| D-SUB37 (20) | D-SUB37 (20) = pink-brown   |
| D-SUB37 (21) | D-SUB37 (21) = white-blue   |
| D-SUB37 (22) | D-SUB37 (22) = brown-blue   |
| D-SUB37 (23) | D-SUB37 (23) = white-red    |
| D-SUB37 (24) | D-SUB37 (24) = brown-red    |
| D-SUB37 (25) | D-SUB37 (25) = white-black  |
| D-SUB37 (26) | D-SUB37 (26) = brown-black  |
| D-SUB37 (27) | D-SUB37 (27) = gray-green   |
| D-SUB37 (28) | D-SUB37 (28) = yellow-gray  |
| D-SUB37 (29) | D-SUB37 (29) = pink-green   |
| D-SUB37 (30) | D-SUB37 (30) = yellow-pink  |
| D-SUB37 (31) | D-SUB37 (31) = green-blue   |
| D-SUB37 (32) | D-SUB37 (32) = yellow-blue  |
| D-SUB37 (33) | D-SUB37 (33) = green-red    |
| D-SUB37 (34) | D-SUB37 (34) = yellow-red   |
| D-SUB37 (35) | D-SUB37 (35) = green-black  |
| D-SUB37 (36) | D-SUB37 (36) = yellow-black |
| D-SUB37 (37) | D-SUB37 (37) = gray-blue    |

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## Connection data

### Connection 1

|                                  |                    |
|----------------------------------|--------------------|
| Connection in acc. with standard | IEC 60807-2        |
|                                  | DIN 41652          |
| Connection method                | D-SUB socket strip |
| Screw thread                     | UNC 4-40           |
| Number of connections            | 1                  |
| Number of positions              | 37                 |
| Tightening torque                | 0.2 Nm             |
| Insertion/withdrawal cycles      | > 200              |
| Pitch                            | 2.77 mm            |

### Connection 2

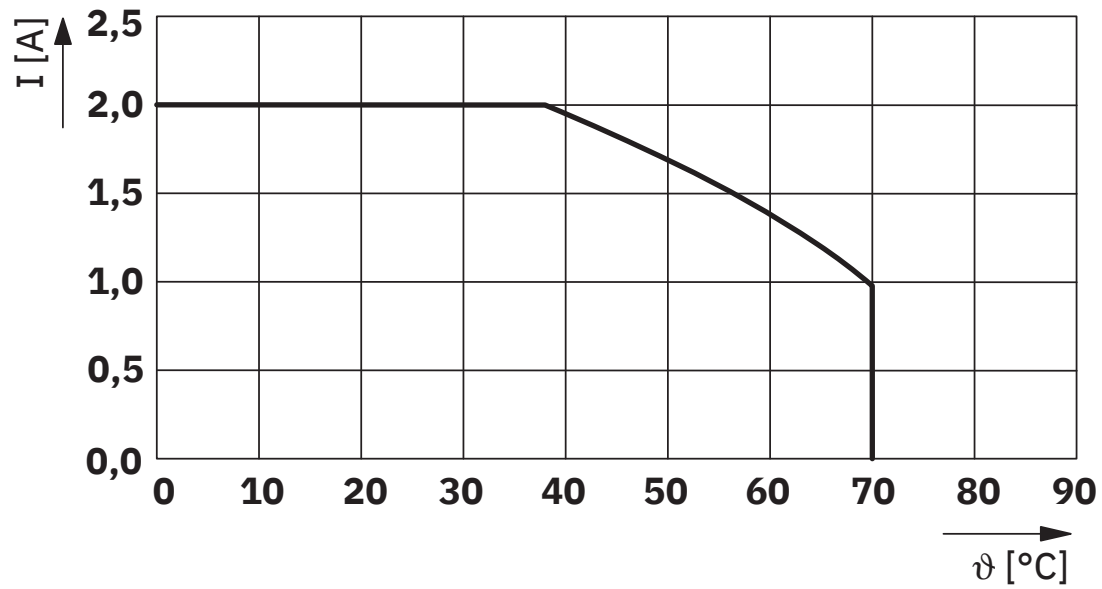
|                                  |                 |
|----------------------------------|-----------------|
| Connection in acc. with standard | IEC 60807-2     |
|                                  | DIN 41652       |
| Connection method                | D-SUB pin strip |
| Screw thread                     | UNC 4-40        |
| Number of connections            | 1               |
| Number of positions              | 37              |
| Tightening torque                | 0.2 Nm          |
| Insertion/withdrawal cycles      | > 200           |
| Pitch                            | 2.77 mm         |

## Notes

|         |  |
|---------|--|
| General | 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

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/2302191>

|  <b>CSA</b><br>Approval ID: 70002966 |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|   | 125 V                 | 1 A                   | -                 | -                           |

|  <b>cUL Recognized</b><br>Approval ID: FILE E 238705 |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|   | 125 V                 | 2 A                   | -                 | -                           |

|  <b>UL Recognized</b><br>Approval ID: FILE E 238705 |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|   | 125 V                 | 2 A                   | -                 | -                           |

|  <b>EAC</b><br>Approval ID: RU*-DE.HB*35.B00385 |  |  |  |  |
|--|--|--|--|--|
|--|--|--|--|--|

| <b>cULus Recognized</b> |  |  |  |  |
|-------------------------|--|--|--|--|
|-------------------------|--|--|--|--|

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27242220 |
| ECLASS-12.0 | 27242220 |
| ECLASS-13.0 | 27242220 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC000237 |
|----------|----------|

### UNSPSC

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

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## Environmental product compliance

|            |  |
|------------|--|
| REACH SVHC | Lead 7439-92-1   |
| China RoHS | Environmentally Friendly Use Period = 50 years   |
|            | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |



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## Accessories

### KME - Cable marker carrier

0807083

<https://www.phoenixcontact.com/us/products/0807083>



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

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