

# CABLE-D15SUB/B/S/ 50/KONFEK/S - Cable



2302052

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Assembled shielded round cable; connection 1: D-SUB socket strip (1x 15-position); connection 2: D-SUB pin strip (1x 15-position); cable length: 0.5 m

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2302052       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | C421          |
| Product key                          | DK2252        |
| GTIN                                 | 4017918893019 |
| Weight per piece (including packing) | 111.5 g       |
| Weight per piece (excluding packing) | 106.4 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) (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)     | ≤ 2 A (Uncoiled, see derating) |

### Cable/line

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

#### 15X0.25 [PVC]

|                                               |                                                                   |
|-----------------------------------------------|-------------------------------------------------------------------|
| UL AWM Style                                  | 2464/1061                                                         |
| Number of positions                           | 15                                                                |
| Shielded                                      | yes                                                               |
| Cable type                                    | 15X0.25 [PVC]                                                     |
| Conductor type                                | Assembled shielded round cable                                    |
| Conductor structure signal line               | 14x 0.15 mm                                                       |
| AWG signal line                               | 24                                                                |
| Conductor cross section                       | 15x 0.25 mm <sup>2</sup>                                          |
| Wire diameter incl. insulation                | 1.2 mm ±0.05 mm                                                   |
| External cable diameter                       | 7.90 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   | 67 mm                                                             |
| Smallest bending radius, movable installation | 126 mm                                                            |
| Dynamic load capacity (bending)               | Max. bending cycles: 5000 (at a radius of ≥ 15x outside diameter) |
| Halogen-free                                  | no                                                                |

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|                   |                                               |
|-------------------|-----------------------------------------------|
| 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) |

Color code: Single-core wire

|              |                             |
|--------------|-----------------------------|
| white        | D-SUB15 (1) = D-SUB15 (1)   |
| brown        | D-SUB15 (2) = D-SUB15 (2)   |
| green        | D-SUB15 (3) = D-SUB15 (3)   |
| yellow       | D-SUB15 (4) = D-SUB15 (4)   |
| gray         | D-SUB15 (5) = D-SUB15 (5)   |
| pink         | D-SUB15 (6) = D-SUB15 (6)   |
| blue         | D-SUB15 (7) = D-SUB15 (7)   |
| red          | D-SUB15 (8) = D-SUB15 (8)   |
| black        | D-SUB15 (9) = D-SUB15 (9)   |
| violet       | D-SUB15 (10) = D-SUB15 (10) |
| gray-pink    | D-SUB15 (11) = D-SUB15 (11) |
| red-blue     | D-SUB15 (12) = D-SUB15 (12) |
| white-green  | D-SUB15 (13) = D-SUB15 (13) |
| brown-green  | D-SUB15 (14) = D-SUB15 (14) |
| white-yellow | D-SUB15 (15) = D-SUB15 (15) |

## 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              | 15                 |
| Tightening torque                | 0.2 Nm             |
| Insertion/withdrawal cycles      | > 200              |
| Pitch                            | 2.74 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              | 15              |
| Tightening torque                | 0.2 Nm          |

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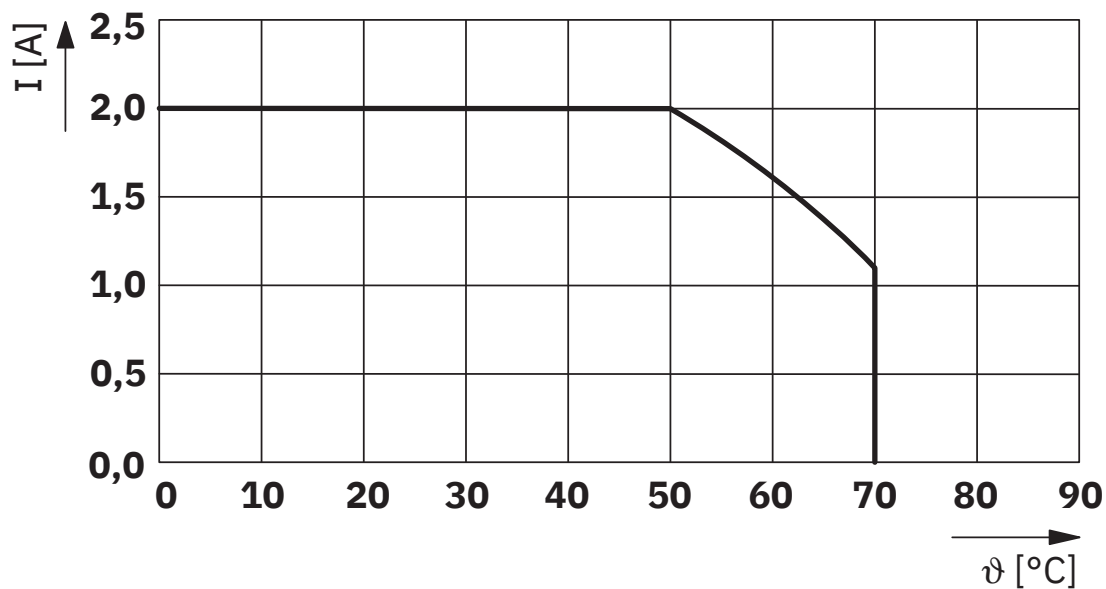
|                             |         |
|-----------------------------|---------|
| Insertion/withdrawal cycles | > 200   |
| Pitch                       | 2.74 mm |

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

## 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/2302052>

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

|  <b>cUL Recognized</b><br>Approval ID: E238705 |                       |                       |                   |                             |
|---------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                 | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                           |                       |                       |                   |                             |
|                                                                                                                                 | 125 V                 | 2 A                   | -                 | -                           |

|  <b>UL Recognized</b><br>Approval ID: E238705 |                       |                       |                   |                             |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                            |                       |                       |                   |                             |
|                                                                                                                                  | 125 V                 | 2 A                   | -                 | -                           |

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

|  <b>cULus Listed</b><br>Approval ID: E238705 V22/S5 |  |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
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## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

Environmental product compliance

|                                         |                                                                                                                                                                                                                                   |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EU RoHS                                 |                                                                                                                                                                                                                                   |
| Fulfills EU RoHS substance requirements | Yes                                                                                                                                                                                                                               |
| Exemption                               | 6(a)                                                                                                                                                                                                                              |
| China RoHS                              |                                                                                                                                                                                                                                   |
| Environment friendly use period (EFUP)  | EFUP-50                                                                                                                                                                                                                           |
|                                         | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |
| EU REACH SVHC                           |                                                                                                                                                                                                                                   |
| REACH candidate substance (CAS No.)     | Lead(CAS: 7439-92-1)                                                                                                                                                                                                              |
| SCIP                                    | de7dba84-ed48-435d-931b-4bb989390b70                                                                                                                                                                                              |