

# CABLE-D25SUB/B/S/600/KONFEK/S - Cable



2302188

<https://www.phoenixcontact.com/us/products/2302188>

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Assembled shielded round cable; connection 1: D-SUB socket strip (1x 25-position); connection 2: D-SUB pin strip (1x 25-position); cable length: 6 m

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2302188       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | C421          |
| Product key                          | DK2252        |
| GTIN                                 | 4017918893149 |
| Weight per piece (including packing) | 991.2 g       |
| Weight per piece (excluding packing) | 948.8 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) |

#### Supported controller ABB S800 I/O

|                   |       |
|-------------------|-------|
| Suitable I/O card | DI810 |
|                   | DI811 |
|                   | DI814 |
|                   | DI818 |
|                   | DI830 |
|                   | DI831 |
|                   | DI840 |
|                   | DI885 |
|                   | DO810 |
|                   | DO814 |
|                   | DO818 |
|                   | DO840 |
|                   | DP820 |
|                   | DP840 |
|                   | AI810 |
|                   | AI820 |
|                   | AI830 |
|                   | AI835 |
|                   | AI845 |
|                   | AO810 |
|                   | AO820 |

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## Cable/line

|              |     |
|--------------|-----|
| Cable length | 6 m |
|--------------|-----|

### 25X0.25 [PVC]

|                                               |                                                                   |
|-----------------------------------------------|-------------------------------------------------------------------|
| UL AWM Style                                  | 2464/1061                                                         |
| Number of positions                           | 25                                                                |
| Shielded                                      | yes                                                               |
| Cable type                                    | 25X0.25 [PVC]                                                     |
| Conductor type                                | Assembled shielded round cable                                    |
| Conductor structure signal line               | 14x 0.15 mm                                                       |
| AWG signal line                               | 24                                                                |
| Conductor cross section                       | 25x 0.25 mm <sup>2</sup>                                          |
| Wire diameter incl. insulation                | 1.2 mm ±0.05 mm                                                   |
| External cable diameter                       | 9.80 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   | 82 mm                                                             |
| Smallest bending radius, movable installation | 155 mm                                                            |
| Dynamic load capacity (bending)               | Max. bending cycles: 5000 (at a radius of ≥ 15x outside diameter) |
| Halogen-free                                  | no                                                                |
| 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)                     |
| Cable type                                    | Cable for one module                                              |

### Color code: Single-core wire

|           |                             |
|-----------|-----------------------------|
| white     | D-SUB25 (1) = D-SUB25 (1)   |
| brown     | D-SUB25 (2) = D-SUB25 (2)   |
| green     | D-SUB25 (3) = D-SUB25 (3)   |
| yellow    | D-SUB25 (4) = D-SUB25 (4)   |
| gray      | D-SUB25 (5) = D-SUB25 (5)   |
| pink      | D-SUB25 (6) = D-SUB25 (6)   |
| blue      | D-SUB25 (7) = D-SUB25 (7)   |
| red       | D-SUB25 (8) = D-SUB25 (8)   |
| black     | D-SUB25 (9) = D-SUB25 (9)   |
| violet    | D-SUB25 (10) = D-SUB25 (10) |
| gray-pink | D-SUB25 (11) = D-SUB25 (11) |

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|              |                             |
|--------------|-----------------------------|
| red-blue     | D-SUB25 (12) = D-SUB25 (12) |
| white-green  | D-SUB25 (13) = D-SUB25 (13) |
| brown-green  | D-SUB25 (14) = D-SUB25 (14) |
| white-yellow | D-SUB25 (15) = D-SUB25 (15) |
| yellow-brown | D-SUB25 (16) = D-SUB25 (16) |
| white-gray   | D-SUB25 (17) = D-SUB25 (17) |
| gray-brown   | D-SUB25 (18) = D-SUB25 (18) |
| white-pink   | D-SUB25 (19) = D-SUB25 (19) |
| pink-brown   | D-SUB25 (20) = D-SUB25 (20) |
| white-blue   | D-SUB25 (21) = D-SUB25 (21) |
| brown-blue   | D-SUB25 (22) = D-SUB25 (22) |
| white-red    | D-SUB25 (23) = D-SUB25 (23) |
| brown-red    | D-SUB25 (24) = D-SUB25 (24) |
| white-black  | D-SUB25 (25) = D-SUB25 (25) |

## 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              | 25                 |
| Tightening torque                | 0.2 Nm             |
| Insertion/withdrawal cycles      | > 200              |
| Pitch                            | 2.77 mm            |

### Connection 2

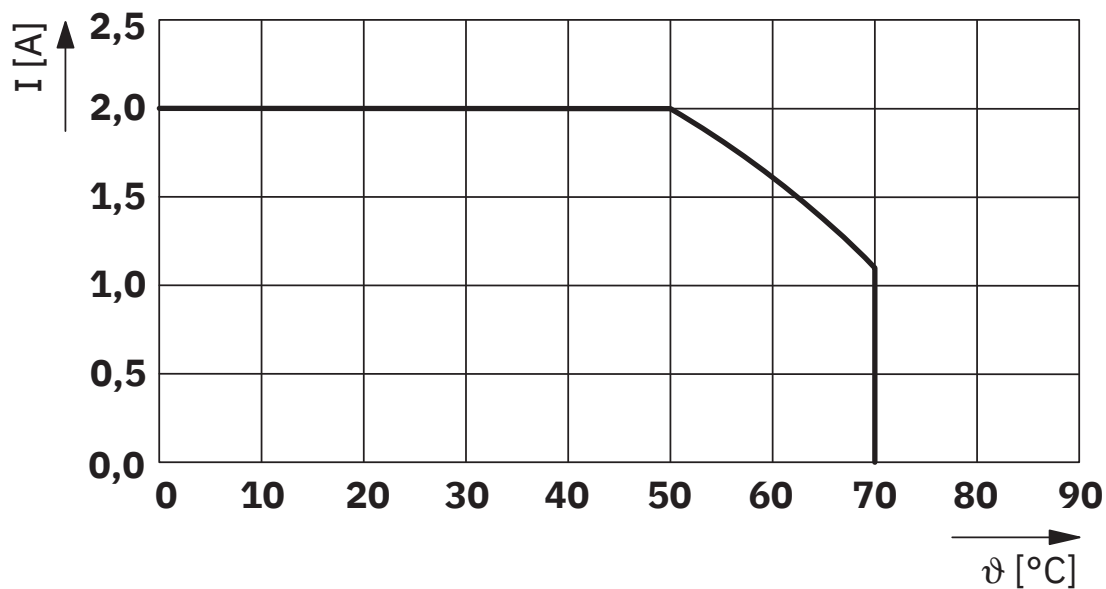
|                                  |                 |
|----------------------------------|-----------------|
| Connection in acc. with standard | IEC 60807-2     |
|                                  | DIN 41652       |
| Connection method                | D-SUB pin strip |
| Screw thread                     | UNC 4-40        |
| Number of connections            | 1               |
| Number of positions              | 25              |
| Tightening torque                | 0.2 Nm          |
| Insertion/withdrawal cycles      | > 200           |
| Pitch                            | 2.77 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/2302188>

|  <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                                | 51518bd5-a1b0-4fde-8abd-163c95993fbe |

## EF3.0 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 6.008 kg CO2e |
|---------|---------------|