

# CABLE-D 9SUB/B/S/400/KONFEK/S - Cable



2302036

<https://www.phoenixcontact.com/gb/products/2302036>

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Assembled shielded round cable; connection 1: D-SUB socket strip (1x 9-position); connection 2: D-SUB pin strip (1x 9-position); cable length: 4 m

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 2302036             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | DK2252              |
| Product key                          | DK2252              |
| Catalog page                         | Page 570 (C-5-2019) |
| GTIN                                 | 4017918892999       |
| Weight per piece (including packing) | 324.4 g             |
| Weight per piece (excluding packing) | 274.9 g             |
| Customs tariff number                | 85444290            |
| Country of origin                    | DE                  |

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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 | 4 m |
|--------------|-----|

#### 9X0.25 [PVC]

|                                               |                                                                   |
|-----------------------------------------------|-------------------------------------------------------------------|
| UL AWM Style                                  | 2464/1061                                                         |
| Number of positions                           | 9                                                                 |
| Shielded                                      | yes                                                               |
| Cable type                                    | 9X0.25 [PVC]                                                      |
| Conductor type                                | Assembled shielded round cable                                    |
| Conductor structure signal line               | 14x 0.15 mm                                                       |
| AWG signal line                               | 24                                                                |
| Conductor cross section                       | 9x 0.25 mm <sup>2</sup>                                           |
| Wire diameter incl. insulation                | 1.2 mm ±0.05 mm                                                   |
| External cable diameter                       | 6.70 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 (20 °C)                                                 |
| Insulation resistance                         | ≥ 20 MΩ*km (20 °C)                                                |
| Nominal voltage, cable                        | 300 V AC/DC                                                       |
| Smallest bending radius, fixed installation   | 58 mm                                                             |
| Smallest bending radius, movable installation | 108 mm                                                            |
| Dynamic load capacity (bending)               | Max. bending cycles: 5000 (at a radius of ≥ 15x outside diameter) |

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

## Color code

|        |                         |
|--------|-------------------------|
| white  | D-SUB9 (1) = D-SUB9 (1) |
| brown  | D-SUB9 (2) = D-SUB9 (2) |
| green  | D-SUB9 (3) = D-SUB9 (3) |
| yellow | D-SUB9 (4) = D-SUB9 (4) |
| gray   | D-SUB9 (5) = D-SUB9 (5) |
| pink   | D-SUB9 (6) = D-SUB9 (6) |
| blue   | D-SUB9 (7) = D-SUB9 (7) |
| red    | D-SUB9 (8) = D-SUB9 (8) |
| black  | D-SUB9 (9) = D-SUB9 (9) |

## 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              | 9                  |
| 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              | 9               |
| Tightening torque                | 0.2 Nm          |
| 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- |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------|

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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/gb/products/2302036>

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

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 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                                | 00e2213c-96fe-4413-b320-9506eef0c8b9 |