

# CABLE-D- 9SUB/M/OE/0,25/S/4,0M - Cable



2926412

<https://www.phoenixcontact.com/us/products/2926412>

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Assembled shielded round cable; connection 1: Single wires (9-position) (The wires are marked and fitted with ferrules. The braided shield is routed to a separate cable end.); connection 2: D-SUB pin strip (1x 9-position); cable length: 4 m

## Your advantages

- Individual wire marking: 1, 2, 3, 4, etc.
- Individual wires fitted with ferrules
- Connector in accordance with IEC 60807-2/DIN 41652
- 1:1 connection
- Open end at one end
- D-SUB socket or pin strip at one end
- Screw connection: 2 UNC 4-40 screws
- Shield connection: H05V-K 1 mm<sup>2</sup> cable, black, length: 0.5 m

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2926412       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | C421          |
| Product key                          | DK2254        |
| GTIN                                 | 4046356548151 |
| Weight per piece (including packing) | 307.9 g       |
| Weight per piece (excluding packing) | 290.9 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) (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 | 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: Single-core wire

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

## Connection data

Connection 1

|                           |                                                                                                      |
|---------------------------|------------------------------------------------------------------------------------------------------|
| Connection method         | Single wires                                                                                         |
| Stripping length (Sheath) | ≈  mm             |
| Number of positions       | 9                                                                                                    |
| Note                      | The wires are marked and fitted with ferrules. The braided shield is routed to a separate cable end. |

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 | No additional touch protection is required when using a SELV/PELV voltage (≤30 V AC or 60 V DC).                                                                                                                                                                               |
| 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. |

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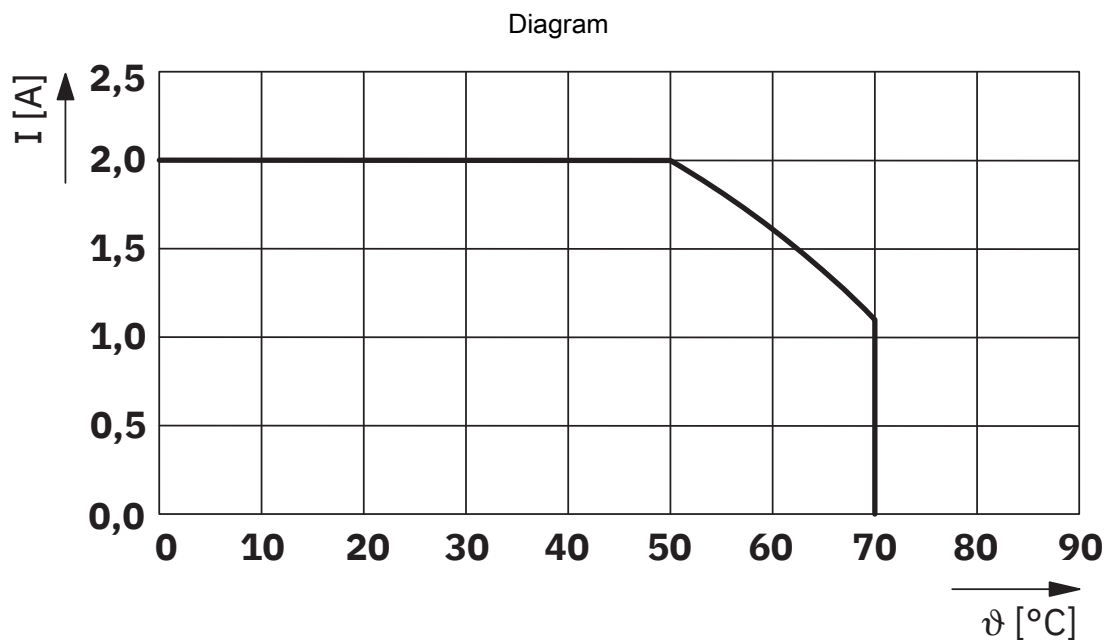


## Drawings

Schematic diagram



**Shield**



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/2926412>

|  <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 |
|-------------|----------|

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## 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: n/a)                       |
| SCIP                                | b8e04990-2c1f-42ec-9c2f-dc1ff2b9507d |

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