# CABLE-D-25SUB/F/OE/0,25/S/10M - Cable

2906214

https://www.phoenixcontact.com/us/products/2906214

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Assembled shielded round cable; connection 1: Single wires (25-position) (The wires are marked and fitted with ferrules. The braided shield is routed to a separate cable end.); connection 2: D-SUB socket strip (1x 25-position); cable length: 10 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
- Screw connection: 2 UNC 4-40 screws
- D-SUB socket or pin strip at one end
- Shield connection: H05V-K 1 mm² cable, black, length: 0.5 m

## Commercial data

| | |
|---|---|
| Item number | 2906214 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | C421 |
| Product key | DK2254 |
| GTIN | 4055626050256 |
| Weight per piece (including packing) | 1,607.8 g |
| Weight per piece (excluding packing) | 1,531 g |
| Customs tariff number | 85444290 |
| Country of origin | DE |

# 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 | 10 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 mm² |
| 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) |

Color code: Single-core wire

| | |
|---|---|
| white | D-SUB25 (1) = () |
| brown | D-SUB25 (2) = () |
| green | D-SUB25 (3) = () |
| yellow | D-SUB25 (4) = () |
| gray | D-SUB25 (5) = () |
| pink | D-SUB25 (6) = () |
| blue | D-SUB25 (7) = () |
| red | D-SUB25 (8) = () |
| black | D-SUB25 (9) = () |
| violet | D-SUB25 (10) = () |
| gray-pink | D-SUB25 (11) = () |
| red-blue | D-SUB25 (12) = () |
| white-green | D-SUB25 (13) = () |
| brown-green | D-SUB25 (14) = () |
| white-yellow | D-SUB25 (15) = () |
| yellow-brown | D-SUB25 (16) = () |
| white-gray | D-SUB25 (17) = () |
| gray-brown | D-SUB25 (18) = () |
| white-pink | D-SUB25 (19) = () |
| pink-brown | D-SUB25 (20) = () |
| white-blue | D-SUB25 (21) = () |
| brown-blue | D-SUB25 (22) = () |
| white-red | D-SUB25 (23) = () |
| brown-red | D-SUB25 (24) = () |
| white-black | D-SUB25 (25) = () |

## Connection data

Connection 1

| | |
|---|---|
| Connection method | Single wires |
| Stripping length (Sheath) | ≈ mm |
| Number of positions | 25 |
| 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 |

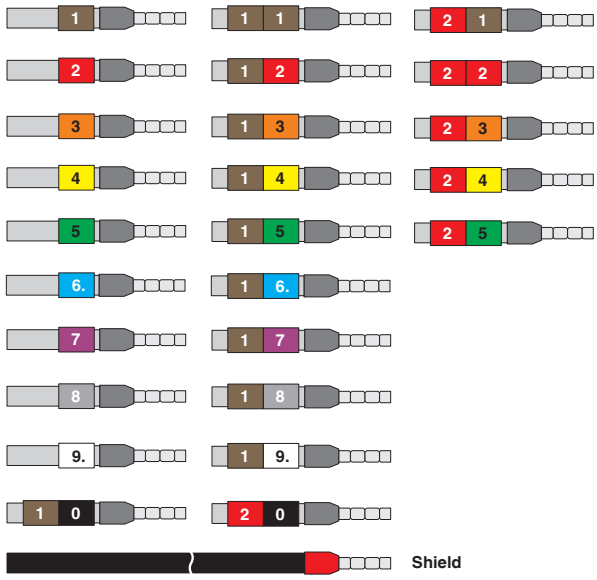
| | |
|---|---|
| Connection method | D-SUB socket strip |
| Screw thread | UNC 4-40 |
| Number of connections | 1 |
| Number of positions | 25 |
| Tightening torque | 0.2 Nm |
| Insertion/withdrawal cycles | > 200 |
| Pitch | 2.77 mm |

## Notes

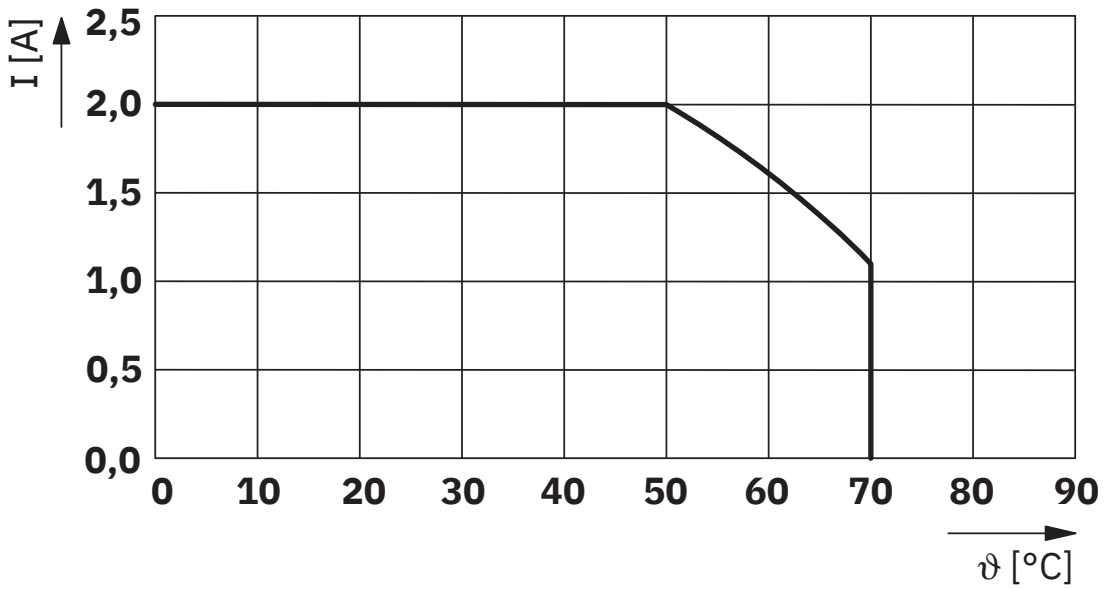
| | |
|---|---|
| Notes on operation | For proper use, the specifications of the installation directive (see Downloads) must be observed. For applications or use with third-party products, the specifications, and the safety and warning instructions of the respective third-party manufacturer must also be met. |

## Drawings

Schematic diagram




Diagram




Maximum permissible current per path in uncoiled state

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2906214

**cULus Listed**
Approval ID: E238705 V22/S5

**CSA**
Approval ID: 70002966

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 125 V | 1 A | - | - |

**cUL Recognized**
Approval ID: E238705

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 125 V | 2 A | - | - |

**UL Recognized**
Approval ID: E238705

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 125 V | 2 A | - | - |

**EAC**
Approval ID: RU*-DE.HB*35.B00385

## Classifications

### ECLASS

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

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC000237 |

### UNSPSC

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

## Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(a)-I |

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 | 8a6c2009-0720-498d-b2b8-f0498039a0a9 |

EF3.1 Climate Change

| | |
|---|---|
| CO2e kg | 9.085 kg CO2e |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