

CABLE-D50SUB/S/S/100/KONFEK/S - Cable



2305693

<https://www.phoenixcontact.com/us/products/2305693>

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Assembled shielded round cable; connection 1: D-SUB pin strip (1x 50-position); connection 2: D-SUB pin strip (1x 50-position); cable length: 1 m

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2305693 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | C421 |
| Product key | DK2252 |
| GTIN | 4046356012034 |
| Weight per piece (including packing) | 354.5 g |
| Weight per piece (excluding packing) | 346 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 | 1 m |
|--------------|-----|

50X0.25 [PVC]

| | |
|---|--------------------------------|
| UL AWM Style | 2464/1061 |
| Number of positions | 50 |
| Shielded | yes |
| Cable type | 50X0.25 [PVC] |
| Conductor type | Assembled shielded round cable |
| Conductor structure signal line | 14x 0.15 mm |
| AWG signal line | 24 |
| Conductor cross-section | 50x 0.25 mm ² |
| Wire diameter incl. insulation | 1.2 mm ±0.05 mm |
| External cable diameter | 12.40 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 | 106 mm |
| Smallest bending radius, movable installation | 200 mm |
| Halogen-free | no |
| | IEC 60332-1-2 (raw cable) |

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|-------------------|---|
| Flame resistance | 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-SUB50 (1) = D-SUB50 (1) |
| brown | D-SUB50 (2) = D-SUB50 (2) |
| green | D-SUB50 (3) = D-SUB50 (3) |
| yellow | D-SUB50 (4) = D-SUB50 (4) |
| gray | D-SUB50 (5) = D-SUB50 (5) |
| pink | D-SUB50 (6) = D-SUB50 (6) |
| blue | D-SUB50 (7) = D-SUB50 (7) |
| red | D-SUB50 (8) = D-SUB50 (8) |
| black | D-SUB50 (9) = D-SUB50 (9) |
| violet | D-SUB50 (10) = D-SUB50 (10) |
| gray-pink | D-SUB50 (11) = D-SUB50 (11) |
| red-blue | D-SUB50 (12) = D-SUB50 (12) |
| white-green | D-SUB50 (13) = D-SUB50 (13) |
| brown-green | D-SUB50 (14) = D-SUB50 (14) |
| white-yellow | D-SUB50 (15) = D-SUB50 (15) |
| yellow-brown | D-SUB50 (16) = D-SUB50 (16) |
| white-gray | D-SUB50 (17) = D-SUB50 (17) |
| gray-brown | D-SUB50 (18) = D-SUB50 (18) |
| white-pink | D-SUB50 (19) = D-SUB50 (19) |
| pink-brown | D-SUB50 (20) = D-SUB50 (20) |
| white-blue | D-SUB50 (21) = D-SUB50 (21) |
| brown-blue | D-SUB50 (22) = D-SUB50 (22) |
| white-red | D-SUB50 (23) = D-SUB50 (23) |
| brown-red | D-SUB50 (24) = D-SUB50 (24) |
| white-black | D-SUB50 (25) = D-SUB50 (25) |
| brown-black | D-SUB50 (26) = D-SUB50 (26) |
| gray-green | D-SUB50 (27) = D-SUB50 (27) |
| yellow-gray | D-SUB50 (28) = D-SUB50 (28) |
| pink-green | D-SUB50 (29) = D-SUB50 (29) |
| yellow-pink | D-SUB50 (30) = D-SUB50 (30) |
| green-blue | D-SUB50 (31) = D-SUB50 (31) |
| yellow-blue | D-SUB50 (32) = D-SUB50 (32) |
| green-red | D-SUB50 (33) = D-SUB50 (33) |
| yellow-red | D-SUB50 (34) = D-SUB50 (34) |
| green-black | D-SUB50 (35) = D-SUB50 (35) |
| yellow-black | D-SUB50 (36) = D-SUB50 (36) |
| gray-blue | D-SUB50 (37) = D-SUB50 (37) |

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| | |
|--------------------|-----------------------------|
| pink-blue | D-SUB50 (38) = D-SUB50 (38) |
| gray-red | D-SUB50 (39) = D-SUB50 (39) |
| pink-red | D-SUB50 (40) = D-SUB50 (40) |
| gray-black | D-SUB50 (41) = D-SUB50 (41) |
| pink-black | D-SUB50 (42) = D-SUB50 (42) |
| blue-black | D-SUB50 (43) = D-SUB50 (43) |
| red-black | D-SUB50 (44) = D-SUB50 (44) |
| white-brown-black | D-SUB50 (45) = D-SUB50 (45) |
| yellow-green-black | D-SUB50 (46) = D-SUB50 (46) |
| gray-pink-black | D-SUB50 (47) = D-SUB50 (47) |
| blue-red-black | D-SUB50 (48) = D-SUB50 (48) |
| white-green-black | D-SUB50 (49) = D-SUB50 (49) |
| green-brown-black | D-SUB50 (50) = D-SUB50 (50) |

Connection data

Connection 1

| | |
|----------------------------------|-----------------|
| 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 | 50 |
| 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 | 50 |
| 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



(1) Derating: standard

(2) Derating: in accordance with UL

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2305693>

|  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 | | | | |
|--|--|--|--|--|
|--|--|--|--|--|

|  cULus Listed Approval ID: E238705 V22/S5 | | | | |
|--|--|--|--|--|
|--|--|--|--|--|

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Classifications

ECLASS

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

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | 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: 7439-92-1) |
| SCIP | 2d7bcbaf-f968-4cfc-884a-6b6c1c916456 |

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