

2304652

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Round cable set; controller: ABB S800 I/O; connection 1: D-SUB socket strip (1x 25-position); connection 2: IDC/FLK socket strip (2x 14-position); cable length: 2 m

Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2304652       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | C421          |
| Product key                          | DK226L        |
| GTIN                                 | 4017918951375 |
| Weight per piece (including packing) | 277.5 g       |
| Weight per piece (excluding packing) | 273 g         |
| Customs tariff number                | 85444290      |
| Country of origin                    | DE            |

# CABLE-D25SUB/B/2X14/200/TU812 - Cable



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## Technical data

### Product properties

|              |              |
|--------------|--------------|
| Product type | System cable |
|--------------|--------------|

### Environmental and real-life conditions

#### Ambient conditions

|                                                         |                                          |
|---------------------------------------------------------|------------------------------------------|
| Degree of protection                                    | IP00                                     |
| 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, 50°C) | ≤ 1 A (Uncoiled, see derating)   |
| Current (Per path, 70°C) | ≤ 0.6 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 |
|                   |       |
|                   |       |

### Cable/line

|              |     |
|--------------|-----|
| Cable length | 2 m |
|--------------|-----|

#### 14X0.14 [PVC]

|                     |                 |
|---------------------|-----------------|
| UL AWM Style        | 2464/1061       |
| Number of positions | 14              |
| Shielded            | no              |
| Cable type          | 14X0.14 [PVC]   |
| Conductor type      | Round cable set |

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|                                               |                                                                   |
|-----------------------------------------------|-------------------------------------------------------------------|
| Conductor structure signal line               | 7x 0.16 mm                                                        |
| AWG signal line                               | 26                                                                |
| Conductor cross section                       | 14x 0.14 mm <sup>2</sup>                                          |
| Wire diameter incl. insulation                | 1 mm ±0.03 mm                                                     |
| External cable diameter                       | 6.40 mm ±0.4 mm                                                   |
| Outer sheath, material                        | Semi-rigid PVC                                                    |
| External sheath, color                        | gray                                                              |
| Conductor material                            | Tin-plated Cu litz wires                                          |
| Cable resistance                              | ≤ 145 Ω/km (20 °C)                                                |
| Insulation resistance                         | ≥ 20 MΩ*km (20 °C)                                                |
| Smallest bending radius, fixed installation   | 55 mm                                                             |
| Smallest bending radius, movable installation | 104 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                                    | Splitting cable for two modules                                   |

Color code: Single-core wire

|             |                                 |
|-------------|---------------------------------|
| gray        | D-SUB25 (1) = IDC/FLK14-1 (9)   |
| white       | D-SUB25 (2) = IDC/FLK14-1 (10)  |
| black       | D-SUB25 (3) = IDC/FLK14-1 (1)   |
| red         | D-SUB25 (4) = IDC/FLK14-1 (3)   |
| yellow      | D-SUB25 (5) = IDC/FLK14-1 (5)   |
| blue        | D-SUB25 (6) = IDC/FLK14-1 (7)   |
| black       | D-SUB25 (7) = IDC/FLK14-2 (1)   |
| red         | D-SUB25 (8) = IDC/FLK14-2 (3)   |
| yellow      | D-SUB25 (9) = IDC/FLK14-2 (5)   |
| blue        | D-SUB25 (10) = IDC/FLK14-2 (7)  |
| gray        | D-SUB25 (11) = IDC/FLK14-2 (9)  |
| white       | D-SUB25 (12) = IDC/FLK14-2 (10) |
| white-black | D-SUB25 (14) = IDC/FLK14-1 (11) |
| white-brown | D-SUB25 (15) = IDC/FLK14-1 (12) |
| brown       | D-SUB25 (16) = IDC/FLK14-1 (2)  |
| orange      | D-SUB25 (17) = IDC/FLK14-1 (4)  |
| green       | D-SUB25 (18) = IDC/FLK14-1 (6)  |
| violet      | D-SUB25 (19) = IDC/FLK14-1 (8)  |
| brown       | D-SUB25 (20) = IDC/FLK14-2 (2)  |
| orange      | D-SUB25 (21) = IDC/FLK14-2 (4)  |

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|             |                                 |
|-------------|---------------------------------|
| green       | D-SUB25 (22) = IDC/FLK14-2 (6)  |
| violet      | D-SUB25 (23) = IDC/FLK14-2 (8)  |
| white-black | D-SUB25 (24) = IDC/FLK14-2 (11) |
| white-brown | D-SUB25 (25) = IDC/FLK14-2 (12) |

## 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           |
|                                  | M2,5               |
| 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 60603-13 (in compliance) |
| Connection method                | IDC/FLK socket strip         |
| Number of connections            | 2                            |
| Number of positions              | 14                           |
| Insertion/withdrawal cycles      | > 50                         |
| Pitch                            | 2.54 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/2304652>



**EAC**

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



**UL Listed**

Approval ID: E238705

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



**cUL Listed**

Approval ID: E238705

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

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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                                | eee98d2c-5c82-4578-8c46-79158245cbcf |