

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



2304652

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

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## Technical data

### Product properties

Product type	System cable
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### 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
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#### 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.
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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

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	125 V	1 A	-	-

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## Classifications

### ECLASS

ECLASS-13.0	27242220
ECLASS-15.0	27242220

### ETIM

ETIM 10.0	EC000237
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### 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	eee98d2c-5c82-4578-8c46-79158245cbcf

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