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CABLE-D25SUB/B/2X14/100/TU812 - Cable

2304649

https://www.phoenixcontact.com/pc/products/2304649

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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: 1 m

Commercial data

Item number	2304649
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	CK226L
Catalog page	Page 469 (C-5-2019)
GTIN	4017918951368
Weight per piece (including packing)	164.6 g
Weight per piece (excluding packing)	164.6 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	IP00
Degree of protection (Installation location)	≥ IP54 (Installation location)
Ambient temperature (operation)	-40 °C ... 70 °C (fixed installation)
	-10 °C ... 70 °C (flexible installation)
Ambient temperature (storage/transport)	-20 °C ... 70 °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	1 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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2304649

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Conductor structure signal line	7x 0.16 mm
AWG signal line	26
Conductor cross section	14x 0.14 mm²
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

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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2304649

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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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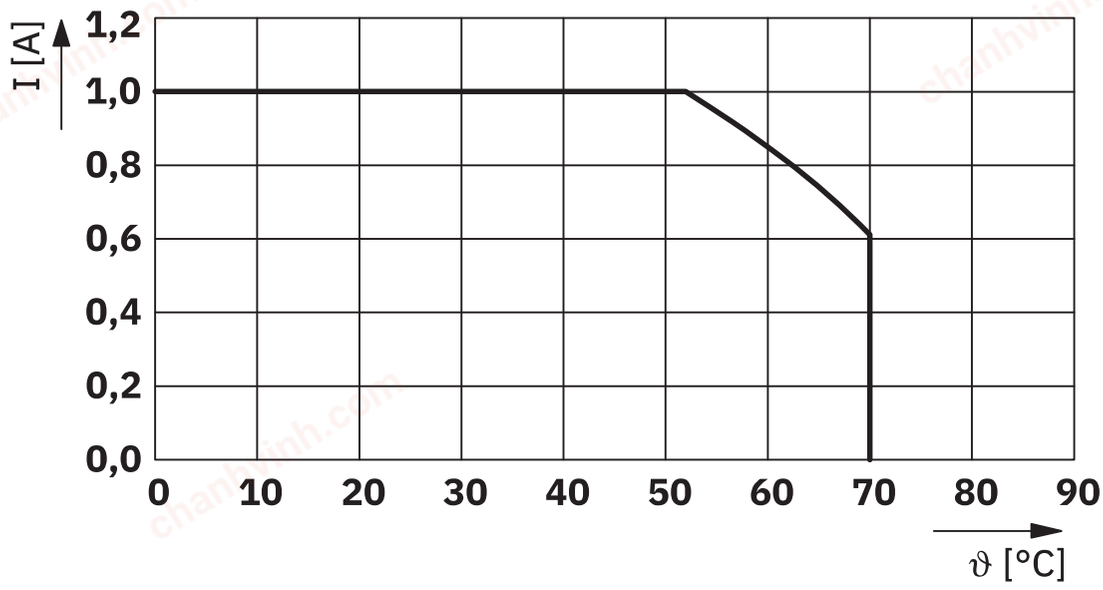
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2304649

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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/pc/products/2304649

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 mm^2
	125 V	1 A	-	-

cUL Listed
Approval ID: E238705

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

cULus Listed

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Classifications

ECLASS

ECLASS-11.0	27242220
ECLASS-12.0	27242220
ECLASS-13.0	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: 7439-92-1)
SCIP	1995ea0a-3cc1-4777-95d5-be44c4ac3936

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