FLK 50/4X14/EZ-DR/ 250/KONFEK - Cable

2305402

https://www.phoenixcontact.com/us/products/2305402

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Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (4x 14-position); cable length: 2.5 m

Commercial data

Item number	2305402
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C421
Product key	DK2215
GTIN	4017918995751
Weight per piece (including packing)	602.4 g
Weight per piece (excluding packing)	602.4 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	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: SIEMENS S7-1500

Suitable I/O card	6ES7521-1BL10-0AA0
	6ES7522-1BL10-0AA0
	6ES7523-1BL00-0AA0

Supported controller: SIEMENS S7-400

Suitable I/O card	6ES7421-1BL01-0AA0
	6ES7422-1BL00-0AA0
	6ES7422-7BL00-0AB0

Supported controller: ALLEN-BRADLEY ControlLogix

Suitable I/O card	1756-IB32
	1756-OB32

Supported controller: ALLEN-BRADLEY PLC 5

Suitable I/O card	1771 IBN
	1771 OBN

Supported controller: HONEYWELL Experion PKS C200

Suitable I/O card	TC-IDD 321
	TC-ODD 321

Supported controller: SCHNEIDER ELECTRIC Modicon TSX QUANTUM

Suitable I/O card	DDI 353
	DDI 853

	DAI 353
	DAI 453
	DDO 353

Supported controller: SIEMENS S7-300 / ET 200 M

Suitable I/O card	CPU 313C-2DP
	CPU 314C-2PtP
	6ES7321-1BL00-0AA0
	6ES7322-1BL00-0AA0
	6ES7323-1BL00-0AA0
	6ES7331-7NF00-0AB0
	6ES7331-7PF01-0AB0
	6ES7331-7PF11-0AB0
	6ES7350-2AH01-0AE0
	6ES7357-4AH01-0AE0
	CPU 314C-2DP
	CPU 313C
	CPU 313C-2PtP

Cable/line

Cable length	2.5 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
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 four modules

Color code: Single-core wire

gray	IDC/FLK50 (1) = IDC/FLK14-1 (9)
white-black	IDC/FLK50 (2) = IDC/FLK14-1 (11)
black	IDC/FLK50 (3) = IDC/FLK14-1 (1)
brown	IDC/FLK50 (4) = IDC/FLK14-1 (2)
red	IDC/FLK50 (5) = IDC/FLK14-1 (3)
orange	IDC/FLK50 (6) = IDC/FLK14-1 (4)
yellow	IDC/FLK50 (7) = IDC/FLK14-1 (5)
green	IDC/FLK50 (8) = IDC/FLK14-1 (6)
blue	IDC/FLK50 (9) = IDC/FLK14-1 (7)
violet	IDC/FLK50 (10) = IDC/FLK14-1 (8)
white	IDC/FLK50 (11) = IDC/FLK14-1 (10)
white-brown	IDC/FLK50 (12) = IDC/FLK14-1 (12)
gray	IDC/FLK50 (13) = IDC/FLK14-2 (9)
white-black	IDC/FLK50 (14) = IDC/FLK14-2 (11)
black	IDC/FLK50 (15) = IDC/FLK14-2 (1)
brown	IDC/FLK50 (16) = IDC/FLK14-2 (2)
red	IDC/FLK50 (17) = IDC/FLK14-2 (3)
orange	IDC/FLK50 (18) = IDC/FLK14-2 (4)
yellow	IDC/FLK50 (19) = IDC/FLK14-2 (5)
green	IDC/FLK50 (20) = IDC/FLK14-2 (6)
blue	IDC/FLK50 (21) = IDC/FLK14-2 (7)
violet	IDC/FLK50 (22) = IDC/FLK14-2 (8)
white	IDC/FLK50 (23) = IDC/FLK14-2 (10)
white-brown	IDC/FLK50 (24) = IDC/FLK14-2 (12)
gray	IDC/FLK50 (25) = IDC/FLK14-3 (9)
white-black	IDC/FLK50 (26) = IDC/FLK14-3 (11)
black	IDC/FLK50 (27) = IDC/FLK14-3 (1)
brown	IDC/FLK50 (28) = IDC/FLK14-3 (2)
red	IDC/FLK50 (29) = IDC/FLK14-3 (3)
orange	IDC/FLK50 (30) = IDC/FLK14-3 (4)
yellow	IDC/FLK50 (31) = IDC/FLK14-3 (5)
green	IDC/FLK50 (32) = IDC/FLK14-3 (6)
blue	IDC/FLK50 (33) = IDC/FLK14-3 (7)
violet	IDC/FLK50 (34) = IDC/FLK14-3 (8)
white	IDC/FLK50 (35) = IDC/FLK14-3 (10)
white-brown	IDC/FLK50 (36) = IDC/FLK14-3 (12)
gray	IDC/FLK50 (37) = IDC/FLK14-4 (9)

white-black	IDC/FLK50 (38) = IDC/FLK14-4 (11)
black	IDC/FLK50 (39) = IDC/FLK14-4 (1)
brown	IDC/FLK50 (40) = IDC/FLK14-4 (2)
red	IDC/FLK50 (41) = IDC/FLK14-4 (3)
orange	IDC/FLK50 (42) = IDC/FLK14-4 (4)
yellow	IDC/FLK50 (43) = IDC/FLK14-4 (5)
green	IDC/FLK50 (44) = IDC/FLK14-4 (6)
blue	IDC/FLK50 (45) = IDC/FLK14-4 (7)
violet	IDC/FLK50 (46) = IDC/FLK14-4 (8)
white	IDC/FLK50 (47) = IDC/FLK14-4 (10)
white-brown	IDC/FLK50 (48) = IDC/FLK14-4 (12)

Connection data

Connection 1

Connection in acc. with standard	IEC 60603-13 (in compliance)
Connection method	IDC/FLK socket strip
Number of connections	1
Number of positions	50
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

Connection 2

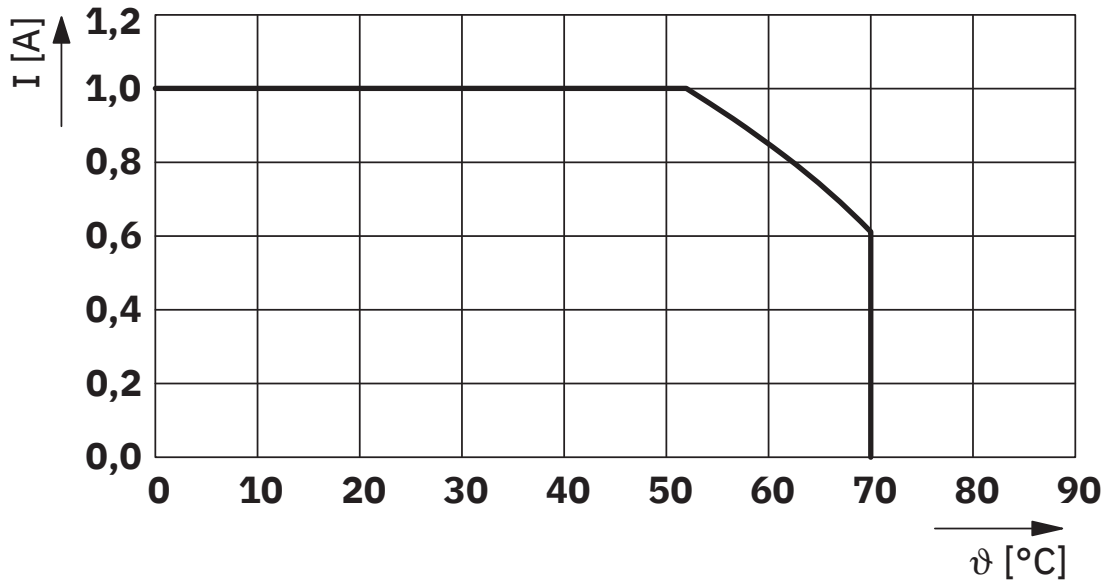
Connection in acc. with standard	IEC 60603-13 (in compliance)
Connection method	IDC/FLK socket strip
Number of connections	4
Number of positions	14
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

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

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2305402

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
keine				
	125 V	1 A	-	-

cUL Listed
Approval ID: E238705

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

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, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

EF3.1 Climate Change

CO2e kg	5.867 kg CO2e

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