

# 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	CK2131
Catalog page	Page 537 (C-5-2019)
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
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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)	-40 °C ... 70 °C (fixed 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

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	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
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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
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	6.4 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
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)

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	UL VW-1
	CSA FT-1
Resistance to oil	can withstand occasional splashes (raw cable)

## color code

IDC/FLK50 (1)	IDC/FLK14-1 (9) = gray
IDC/FLK50 (2)	IDC/FLK14-1 (11) = white-black
IDC/FLK50 (3)	IDC/FLK14-1 (1) = black
IDC/FLK50 (4)	IDC/FLK14-1 (2) = brown
IDC/FLK50 (5)	IDC/FLK14-1 (3) = red
IDC/FLK50 (6)	IDC/FLK14-1 (4) = orange
IDC/FLK50 (7)	IDC/FLK14-1 (5) = yellow
IDC/FLK50 (8)	IDC/FLK14-1 (6) = green
IDC/FLK50 (9)	IDC/FLK14-1 (7) = blue
IDC/FLK50 (10)	IDC/FLK14-1 (8) = violet
IDC/FLK50 (11)	IDC/FLK14-1 (10) = white
IDC/FLK50 (12)	IDC/FLK14-1 (12) = white-brown
IDC/FLK50 (13)	IDC/FLK14-2 (9) = gray
IDC/FLK50 (14)	IDC/FLK14-2 (11) = white-black
IDC/FLK50 (15)	IDC/FLK14-2 (1) = black
IDC/FLK50 (16)	IDC/FLK14-2 (2) = brown
IDC/FLK50 (17)	IDC/FLK14-2 (3) = red
IDC/FLK50 (18)	IDC/FLK14-2 (4) = orange
IDC/FLK50 (19)	IDC/FLK14-2 (5) = yellow
IDC/FLK50 (20)	IDC/FLK14-2 (6) = green
IDC/FLK50 (21)	IDC/FLK14-2 (7) = blue
IDC/FLK50 (22)	IDC/FLK14-2 (8) = violet
IDC/FLK50 (23)	IDC/FLK14-2 (10) = white
IDC/FLK50 (24)	IDC/FLK14-2 (12) = white-brown
IDC/FLK50 (25)	IDC/FLK14-3 (9) = gray
IDC/FLK50 (26)	IDC/FLK14-3 (11) = white-black
IDC/FLK50 (27)	IDC/FLK14-3 (1) = black
IDC/FLK50 (28)	IDC/FLK14-3 (2) = brown
IDC/FLK50 (29)	IDC/FLK14-3 (3) = red
IDC/FLK50 (30)	IDC/FLK14-3 (4) = orange
IDC/FLK50 (31)	IDC/FLK14-3 (5) = yellow
IDC/FLK50 (32)	IDC/FLK14-3 (6) = green
IDC/FLK50 (33)	IDC/FLK14-3 (7) = blue
IDC/FLK50 (34)	IDC/FLK14-3 (8) = violet
IDC/FLK50 (35)	IDC/FLK14-3 (10) = white
IDC/FLK50 (36)	IDC/FLK14-3 (12) = white-brown
IDC/FLK50 (37)	IDC/FLK14-4 (9) = gray
IDC/FLK50 (38)	IDC/FLK14-4 (11) = white-black
IDC/FLK50 (39)	IDC/FLK14-4 (1) = black

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

## Connection data

### Connection 1

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

### Connection 2

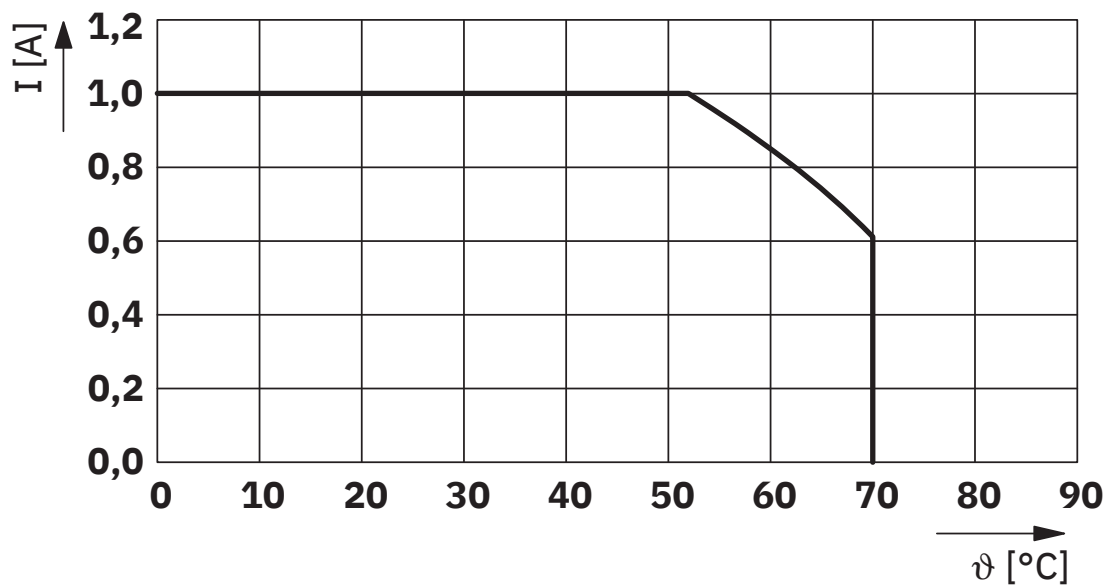
Connection in acc. with standard	based on IEC 60603-13
Connection method	IDC/FLK socket strip
Number of connections	4
Number of positions	14
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

## Notes

General	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

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**EAC**

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



**UL Listed**

Approval ID: FILE E 238705

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



**cUL Listed**

Approval ID: FILE E 238705

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	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 8.0	EC000237
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### UNSPSC

UNSPSC 21.0	26121600
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## Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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## Accessories

### KME - Cable marker carrier

0807083

<https://www.phoenixcontact.com/us/products/0807083>



Cable marker carrier, white, unlabeled, mounting type: Assembly with cable ties, cable diameter: > 5 mm, lettering field size: 20 x 8 mm

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