

FLK 50/4X14/EZ-DR/ 150/KONFEK - Cable



2296702

<https://www.phoenixcontact.com/us/products/2296702>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.

Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (4x 14-position); cable length: 1.5 m



Commercial data

Item number	2296702
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C421
Product key	CK2131
Catalog page	Page 537 (C-5-2019)
GTIN	4017918593728
Weight per piece (including packing)	366.9 g
Weight per piece (excluding packing)	349.8 g
Customs tariff number	85444290
Country of origin	DE

FLK 50/4X14/EZ-DR/ 150/KONFEK - Cable



2296702

<https://www.phoenixcontact.com/us/products/2296702>

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)	-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

FLK 50/4X14/EZ-DR/ 150/KONFEK - Cable



2296702

<https://www.phoenixcontact.com/us/products/2296702>

	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	1.5 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 mm ²
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
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)

FLK 50/4X14/EZ-DR/ 150/KONFEK - Cable



2296702

<https://www.phoenixcontact.com/us/products/2296702>

	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

FLK 50/4X14/EZ-DR/ 150/KONFEK - Cable



2296702

<https://www.phoenixcontact.com/us/products/2296702>

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

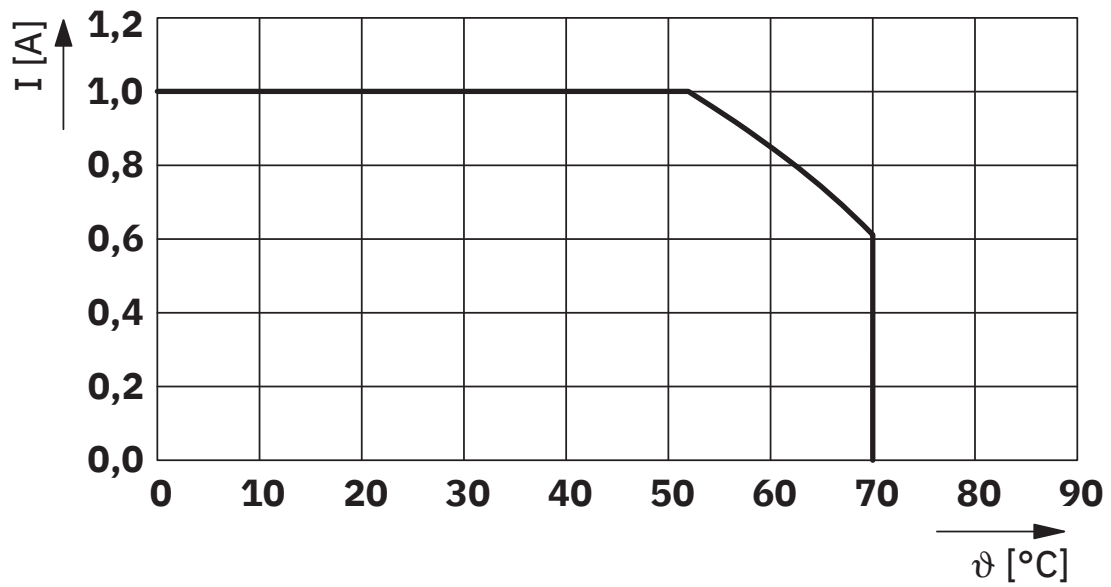
Connection in acc. with standard	based on IEC 60603-13
Connection method	IDC/FLK socket strip
Number of connections	4
Number of positions	14
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

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.
---------	--

Drawings

Diagram



Maximum permissible current per path in uncoiled state

FLK 50/4X14/EZ-DR/ 150/KONFEK - Cable



2296702

<https://www.phoenixcontact.com/us/products/2296702>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2296702>



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 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 mm^2
	125 V	1 A	-	-

cULus Listed

FLK 50/4X14/EZ-DR/ 150/KONFEK - Cable



2296702

<https://www.phoenixcontact.com/us/products/2296702>

Classifications

ECLASS

ECLASS-11.0	27242220
ECLASS-12.0	27242220
ECLASS-13.0	27242220

ETIM

ETIM 9.0	EC000237
----------	----------

UNSPSC

UNSPSC 21.0	26121600
-------------	----------

FLK 50/4X14/EZ-DR/ 150/KONFEK - Cable



2296702

<https://www.phoenixcontact.com/us/products/2296702>

Environmental product compliance

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

FLK 50/4X14/EZ-DR/ 150/KONFEK - Cable



2296702

<https://www.phoenixcontact.com/us/products/2296702>

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

Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com