

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



2305402

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

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: 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	CK2215
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
Data management status	
Article revision	06

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
-------------------	--------------------------

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



2305402

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

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 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
Dynamic load capacity (bending)	Max. bending cycles: 5000 (at a radius of ≥ 15x outside diameter)

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



2305402

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

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

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)

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



2305402

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

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	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

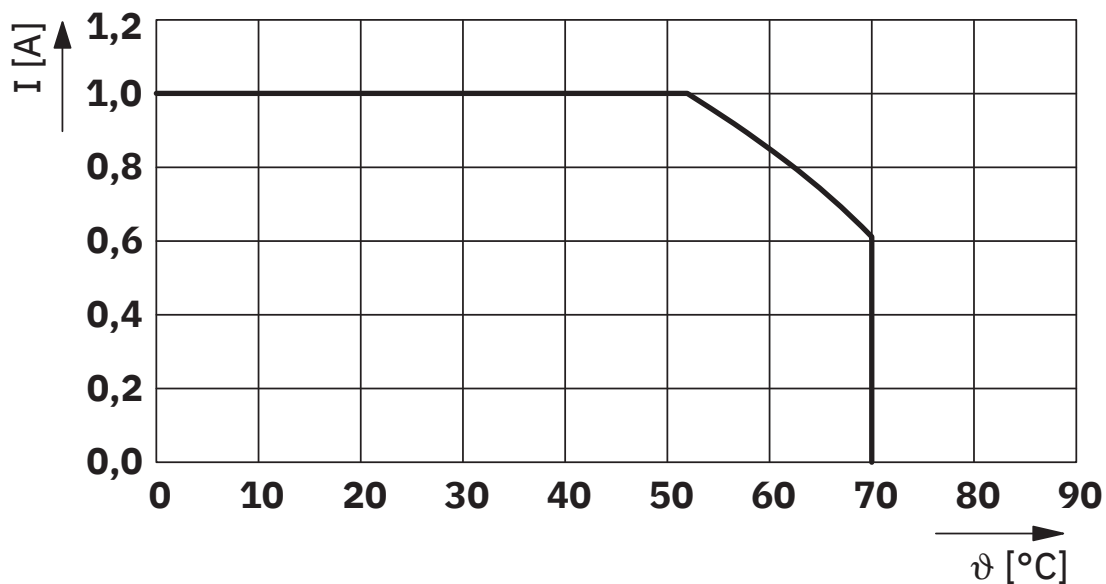
Connection in acc. with standard	based on IEC 60603-13
Connection method	IDC/FLK socket strip
Number of connections	4
Number of positions	14
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

Notes

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

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



2305402

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

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
	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

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



2305402

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

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/ 250/KONFEK - Cable



2305402

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

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%

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