

# FLK 40/4X14/EZ-DR/ 50/IB32 - Cable



2296812

<https://www.phoenixcontact.com/us/products/2296812>

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; controller: Allen-Bradley SLC 500 (IB 32); connection 1: IDC/FLK socket strip (1x 40-position); connection 2: IDC/FLK socket strip (4x 14-position); cable length: 0.5 m

## Your advantages

- System cable can be used to split 32 channels into 4 x 8 channels

## Commercial data

Item number	2296812
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C421
Product key	DK221R
GTIN	4017918614157
Weight per piece (including packing)	117.8 g
Weight per piece (excluding packing)	117.8 g
Customs tariff number	85444290
Country of origin	DE

## Technical data

### Product properties

Product type	System cable
--------------	--------------

#### Insulation characteristics: Air clearances and creepage distances

Insulation	Functional insulation
Overvoltage category	II
Pollution degree	2

### 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)	≤ 25 V AC
Operating voltage (DC)	≤ 60 V DC
Nominal operating mode	100% operating factor
Current (Per path, 50°C)	≤ 1 A
Current (Per path, 70°C)	≤ 0.6 A

#### Air clearances and creepage distances

Rated insulation voltage	63 V
Rated surge voltage	0.6 kV

#### Supported controller: ALLEN-BRADLEY SLC 500

Suitable I/O card	1746 IB 32
	1746 IV 32

### Cable/line

Cable length	0.5 m
--------------	-------

#### 10X0.14 [PVC]

UL AWM Style	2464/1061
Number of positions	10
Shielded	no
Cable type	10X0.14 [PVC]
Conductor type	Round cable set
Conductor structure signal line	7x 0.16 mm
AWG signal line	26

# FLK 40/4X14/EZ-DR/ 50/IB32 - Cable



2296812

<https://www.phoenixcontact.com/us/products/2296812>

Conductor cross-section	10x 0.14 mm <sup>2</sup>
Wire diameter incl. insulation	1 mm ±0.03 mm
External cable diameter	6.10 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	52 mm
Smallest bending radius, movable installation	98 mm
Dynamic load capacity (bending)	Max. bending cycles: 5000
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

black	IDC/FLK40 (5) = IDC/FLK14-1 (1)
brown	IDC/FLK40 (7) = IDC/FLK14-1 (2)
red	IDC/FLK40 (9) = IDC/FLK14-1 (3)
orange	IDC/FLK40 (11) = IDC/FLK14-1 (4)
yellow	IDC/FLK40 (13) = IDC/FLK14-1 (5)
green	IDC/FLK40 (15) = IDC/FLK14-1 (6)
blue	IDC/FLK40 (17) = IDC/FLK14-1 (7)
violet	IDC/FLK40 (19) = IDC/FLK14-1 (8)
gray	IDC/FLK40 (1) = IDC/FLK14-1 (10)
white	IDC/FLK40 (3) = IDC/FLK14-1 (12)
black	IDC/FLK40 (21) = IDC/FLK14-2 (1)
brown	IDC/FLK40 (23) = IDC/FLK14-2 (2)
red	IDC/FLK40 (25) = IDC/FLK14-2 (3)
orange	IDC/FLK40 (27) = IDC/FLK14-2 (4)
yellow	IDC/FLK40 (29) = IDC/FLK14-2 (5)
green	IDC/FLK40 (31) = IDC/FLK14-2 (6)
blue	IDC/FLK40 (33) = IDC/FLK14-2 (7)
violet	IDC/FLK40 (35) = IDC/FLK14-2 (8)
gray	IDC/FLK40 (37) = IDC/FLK14-2 (10)
white	IDC/FLK40 (39) = IDC/FLK14-2 (12)
black	IDC/FLK40 (6) = IDC/FLK14-3 (1)
brown	IDC/FLK40 (8) = IDC/FLK14-3 (2)
red	IDC/FLK40 (10) = IDC/FLK14-3 (3)

# FLK 40/4X14/EZ-DR/ 50/IB32 - Cable



2296812

<https://www.phoenixcontact.com/us/products/2296812>

orange	IDC/FLK40 (12) = IDC/FLK14-3 (4)
yellow	IDC/FLK40 (14) = IDC/FLK14-3 (5)
green	IDC/FLK40 (16) = IDC/FLK14-3 (6)
blue	IDC/FLK40 (18) = IDC/FLK14-3 (7)
violet	IDC/FLK40 (20) = IDC/FLK14-3 (8)
gray	IDC/FLK40 (2) = IDC/FLK14-3 (10)
white	IDC/FLK40 (4) = IDC/FLK14-3 (12)
black	IDC/FLK40 (22) = IDC/FLK14-4 (1)
brown	IDC/FLK40 (24) = IDC/FLK14-4 (2)
red	IDC/FLK40 (26) = IDC/FLK14-4 (3)
orange	IDC/FLK40 (28) = IDC/FLK14-4 (4)
yellow	IDC/FLK40 (30) = IDC/FLK14-4 (5)
green	IDC/FLK40 (32) = IDC/FLK14-4 (6)
blue	IDC/FLK40 (34) = IDC/FLK14-4 (7)
violet	IDC/FLK40 (36) = IDC/FLK14-4 (8)
gray	IDC/FLK40 (38) = IDC/FLK14-4 (10)
white	IDC/FLK40 (40) = IDC/FLK14-4 (12)

## Connection data

### Field level

Connection in acc. with standard	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

### Controller level

Connection in acc. with standard	IEC 60603-13
Connection method	IDC/FLK socket strip
Number of connections	1
Number of positions	40
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

## Standards and regulations

### Air clearances and creepage distances

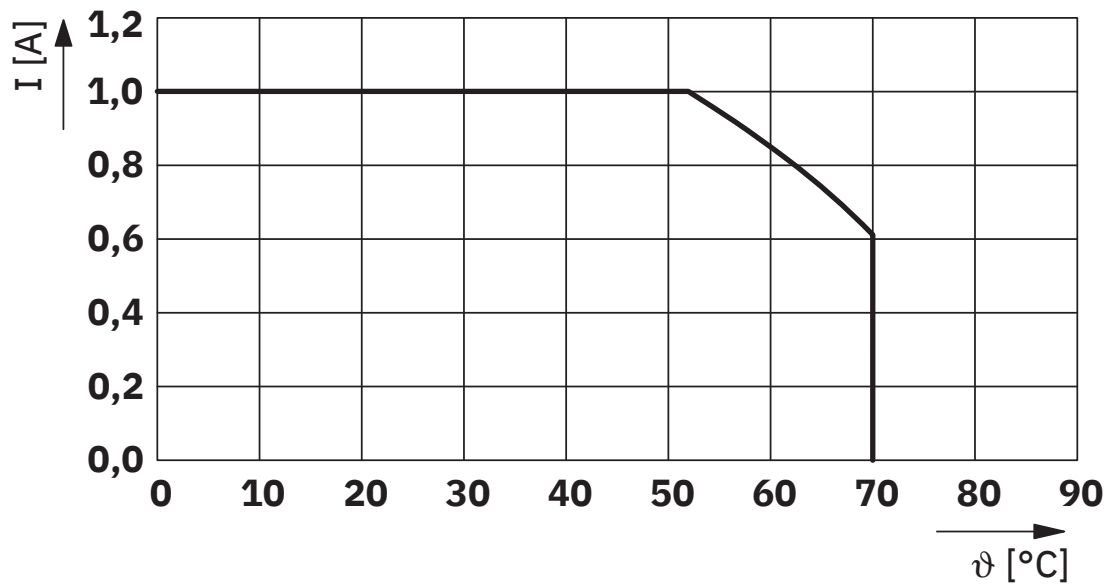
Standards/regulations	DIN EN 50178
-----------------------	--------------

## 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 40/4X14/EZ-DR/ 50/IB32 - Cable



2296812

<https://www.phoenixcontact.com/us/products/2296812>

## Classifications

### UNSPSC

UNSPSC 21.0	26121620
-------------	----------

# FLK 40/4X14/EZ-DR/ 50/IB32 - Cable



2296812

<https://www.phoenixcontact.com/us/products/2296812>

## 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 2026 © - 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](mailto:info@phoenixcon.com)