

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



2296812

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

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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
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#### 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

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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)

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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

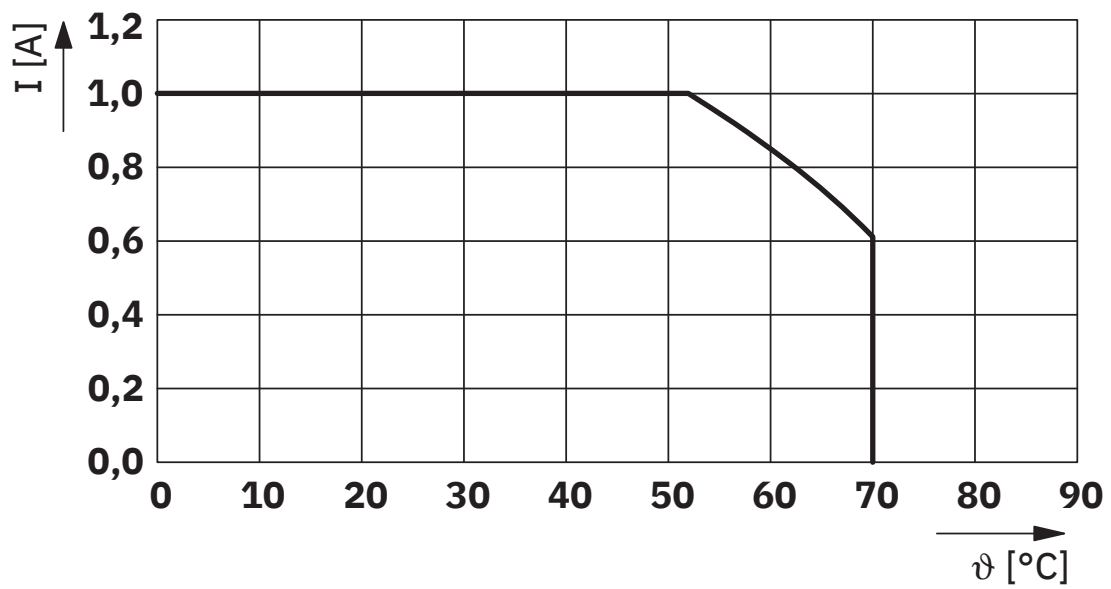
Standards/regulations	DIN EN 50178
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## Notes

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.
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## Drawings

Diagram



Maximum permissible current per path in uncoiled state

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## Classifications

### UNSPSC

UNSPSC 21.0	26121620
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## 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%

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