

# FLK 40/4X14/EZ-DR/ 200/IB32 - Cable



2296838

<https://www.phoenixcontact.com/us/products/2296838>

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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: 2 m

## Your advantages

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

## Commercial data

Item number	2296838
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C421
Product key	CK2141
Catalog page	Page 475 (C-5-2019)
GTIN	4017918612863
Weight per piece (including packing)	411.2 g
Weight per piece (excluding packing)	411.2 g
Customs tariff number	85444290
Country of origin	DE

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## 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 ALLEN-BRADLEY SLC 500

Suitable I/O card	1746 IB 32 1746 IV 32
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### Cable/line

Cable length	2 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
Conductor cross section	10x 0.14 mm <sup>2</sup>
Wire diameter incl. insulation	1 mm ±0.03 mm
External cable diameter	6.1 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)

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Smallest bending radius, fixed installation	52 mm
Smallest bending radius, movable installation	98 mm
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)

## color code

IDC/FLK40 (5)	IDC/FLK14-1 (1) = black
IDC/FLK40 (7)	IDC/FLK14-1 (2) = brown
IDC/FLK40 (9)	IDC/FLK14-1 (3) = red
IDC/FLK40 (11)	IDC/FLK14-1 (4) = orange
IDC/FLK40 (13)	IDC/FLK14-1 (5) = yellow
IDC/FLK40 (15)	IDC/FLK14-1 (6) = green
IDC/FLK40 (17)	IDC/FLK14-1 (7) = blue
IDC/FLK40 (19)	IDC/FLK14-1 (8) = violet
IDC/FLK40 (1)	IDC/FLK14-1 (10) = gray
IDC/FLK40 (3)	IDC/FLK14-1 (12) = white
IDC/FLK40 (21)	IDC/FLK14-2 (1) = black
IDC/FLK40 (23)	IDC/FLK14-2 (2) = brown
IDC/FLK40 (25)	IDC/FLK14-2 (3) = red
IDC/FLK40 (27)	IDC/FLK14-2 (4) = orange
IDC/FLK40 (29)	IDC/FLK14-2 (5) = yellow
IDC/FLK40 (31)	IDC/FLK14-2 (6) = green
IDC/FLK40 (33)	IDC/FLK14-2 (7) = blue
IDC/FLK40 (35)	IDC/FLK14-2 (8) = violet
IDC/FLK40 (37)	IDC/FLK14-2 (10) = gray
IDC/FLK40 (39)	IDC/FLK14-2 (12) = white
IDC/FLK40 (6)	IDC/FLK14-3 (1) = black
IDC/FLK40 (8)	IDC/FLK14-3 (2) = brown
IDC/FLK40 (10)	IDC/FLK14-3 (3) = red
IDC/FLK40 (12)	IDC/FLK14-3 (4) = orange
IDC/FLK40 (14)	IDC/FLK14-3 (5) = yellow
IDC/FLK40 (16)	IDC/FLK14-3 (6) = green
IDC/FLK40 (18)	IDC/FLK14-3 (7) = blue
IDC/FLK40 (20)	IDC/FLK14-3 (8) = violet
IDC/FLK40 (2)	IDC/FLK14-3 (10) = gray
IDC/FLK40 (4)	IDC/FLK14-3 (12) = white
IDC/FLK40 (22)	IDC/FLK14-4 (1) = black
IDC/FLK40 (24)	IDC/FLK14-4 (2) = brown

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IDC/FLK40 (26)	IDC/FLK14-4 (3) = red
IDC/FLK40 (28)	IDC/FLK14-4 (4) = orange
IDC/FLK40 (30)	IDC/FLK14-4 (5) = yellow
IDC/FLK40 (32)	IDC/FLK14-4 (6) = green
IDC/FLK40 (34)	IDC/FLK14-4 (7) = blue
IDC/FLK40 (36)	IDC/FLK14-4 (8) = violet
IDC/FLK40 (38)	IDC/FLK14-4 (10) = gray
IDC/FLK40 (40)	IDC/FLK14-4 (12) = white

## 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	40
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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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2296838>



### 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
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### 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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