

# FLK 20/2FLK14/EZ-DR/400/KONFEK - Cable



2305237

<https://www.phoenixcontact.com/us/products/2305237>

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Round cable set; connection 1: IDC/FLK socket strip (1x 20-position); connection 2: IDC/FLK socket strip (2x 14-position); cable length: 4 m

## Your advantages

- Suitable for connecting 16-channel digital cards, e.g., SIMATIC ET 200SP
- The 16 digital signals are split into 2x 8 signals on the field side
- IDC/FLK connector: 20-pos. to two 14-pos. (in accordance with IEC 60603-13)

## Commercial Data

Item number	2305237
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to Order (non-returnable)
Sales Key	C421
Product Key	CK2131
GTIN	4046356038928
Weight per Piece (including packing)	348 g
Weight per Piece (excluding packing)	329 g
Customs tariff number	85444290
Country of origin	DE

## Technical Data

### Product properties

Product type	System cable
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### Insulation characteristics

Insulation	Functional insulation
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### 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)	-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

Max. permissible operating voltage	25 V AC
	60 V DC
Nominal operating mode	100% operating factor
Max. current carrying capacity per path	1 A (50 °C)
	0.6 A (70 °C)

#### Air clearances and creepage distances

Rated insulation voltage	63 V
Rated surge voltage	0.6 kV

#### Supported controller EMERSON DeltaV

Suitable I/O card	VE4001S2T2B5
	VE4002S1T2B6

#### Supported controller SIEMENS ET 200SP

Suitable base unit	6ES7193-6BP00-0BA0
	6ES7193-6BP00-2BA0
	6ES7193-6BP00-0BA1
	6ES7193-6BP00-0DA0
	6ES7193-6BP00-2DA0
	6ES7193-6BP00-0DA1
	6ES7131-6BH01-0BA0 (Base Units A0/A1)

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Suitable I/O module	6ES7131-6BH01-2BA0 (Base Units A0/A1)
	6ES7132-6BH01-0BA0 (Base Units A0/A1)
	6ES7132-6BH01-2BA0 (Base Units A0/A1)

## Cable/line

Cable length	4 m
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### 20X0.14 [PVC]

UL AWM Style	2464/1061
Number of positions	20
Shielded	no
Cable type	20X0.14 [PVC]
Conductor type	Round cable set
Conductor structure signal line	7x 0.16 mm
AWG signal line	26
Conductor cross section	20x 0.14 mm <sup>2</sup>
Wire diameter incl. insulation	1 mm ±0.03 mm
External cable diameter	7.6 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	64 mm
Smallest bending radius, movable installation	120 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)
	UL VW-1
	CSA FT-1
Resistance to oil	can withstand occasional splashes (raw cable)
Type	Splitting cable for two modules
Cable, preassembly	Insulation displacement, IEC 60352-4/DIN EN 60352-4

### color code

IDC/FLK20 (1)	IDC/FLK14-1 (1) = black
IDC/FLK20 (2)	IDC/FLK14-1 (2) = brown
IDC/FLK20 (3)	IDC/FLK14-1 (3) = red
IDC/FLK20 (4)	IDC/FLK14-1 (4) = orange
IDC/FLK20 (5)	IDC/FLK14-1 (5) = yellow
IDC/FLK20 (6)	IDC/FLK14-1 (6) = green
IDC/FLK20 (7)	IDC/FLK14-1 (7) = blue
IDC/FLK20 (8)	IDC/FLK14-1 (8) = violet

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IDC/FLK20 (9)	IDC/FLK14-2 (1) = gray
IDC/FLK20 (10)	IDC/FLK14-2 (2) = white
IDC/FLK20 (11)	IDC/FLK14-2 (3) = white-black
IDC/FLK20 (12)	IDC/FLK14-2 (4) = white-brown
IDC/FLK20 (13)	IDC/FLK14-2 (5) = white-red
IDC/FLK20 (14)	IDC/FLK14-2 (6) = white-orange
IDC/FLK20 (15)	IDC/FLK14-2 (7) = white-yellow
IDC/FLK20 (16)	IDC/FLK14-2 (8) = white-green
IDC/FLK20 (17)	IDC/FLK14-2 (9) = white-blue
IDC/FLK20 (18)	IDC/FLK14-2 (10) = white-violet
IDC/FLK20 (19)	IDC/FLK14-1 (9) = white-gray
IDC/FLK20 (20)	IDC/FLK14-1 (10) = brown-black

## Connection data

### Field level

Connection in acc. with standard	IEC 60603-13
Connection method	IDC/FLK socket strip
Number of connections	2
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	20
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

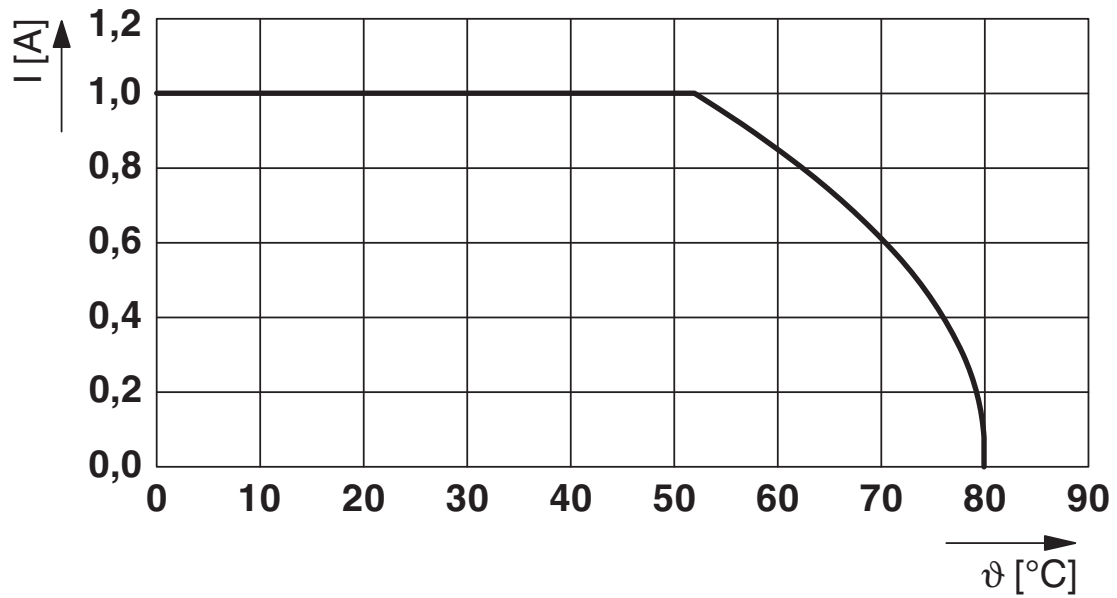
## Standards and regulations

### Air clearances and creepage distances

Standards/regulations	DIN EN 50178
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Drawings

Diagram



Maximum permissible current per path in uncoiled state

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## Approvals



### 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

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## Classifications

### ECLASS

ECLASS-9.0	27242220
ECLASS-10.0.1	27242220
ECLASS-11.0	27242220
ECLASS-12.0	27242220
ECLASS-13.0	27242220

### 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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