

# CABLE-FLK20/OE/0,14/ 100 - Cable



2305305

<https://www.phoenixcontact.com/us/products/2305305>

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Round cable set; connection 1: Single wires (20-position) (The wires are marked and fitted with ferrules); connection 2: IDC/FLK socket strip (1x 20-position); cable length: 1 m



## Your advantages

- 20 and 50-pos.
- Connector in accordance with IEC 60603-13
- Open end at one end
- 1:1 connection

## Commercial data

Item number	2305305
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C421
Product key	DK2213
GTIN	4046356038980
Weight per piece (including packing)	89.8 g
Weight per piece (excluding packing)	89.44 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) (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)	≤ 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)

### Cable/line

Cable length	1 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	7.60 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
Dynamic load capacity (bending)	Max. bending cycles: 5000 (at a radius of ≥ 15x outside diameter)

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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	Cable for one module

Color code: Single-core wire

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

## Connection data

### Connection 1

Connection method	Single wires
Stripping length (Sheath)	≈  mm
Number of positions	20
Note	The wires are marked and fitted with ferrules

### Connection 2

Connection in acc. with standard	IEC 60603-13 (in compliance)
Connection method	IDC/FLK socket strip
Number of connections	1
Number of positions	20
Insertion/withdrawal cycles	> 50

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Pitch	2.54 mm
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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

Schematic diagram



Diagram



Maximum permissible current per path in uncoiled state

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2305305>



**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 $\text{mm}^2$
keine				
	125 V	1 A	-	-



**cUL Listed**

Approval ID: E238705

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	125 V	1 A	-	-

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## Classifications

### ECLASS

ECLASS-13.0	27242220
ECLASS-15.0	27242220

### ETIM

ETIM 10.0	EC000237
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### UNSPSC

UNSPSC 21.0	26121600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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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