

# CABLE-FLK50/OE/0,14/4000/S - Cable



2909786

<https://www.phoenixcontact.com/us/products/2909786>

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Assembled shielded round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: Single wires (48-position) (The wires are marked and fitted with ferrules); cable length: 40 m

## Your advantages

- 50-pos.
- Open end at one end

## Commercial data

Item number	2909786
Packing unit	1 pc
Minimum order quantity	10 pc
Note	Made to order (non-returnable)
Product key	DK2AZZ
GTIN	4055626380735
Country of origin	DE

## Technical data

### Product properties

Product type	System cable
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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) (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

Max. permissible operating voltage	25 V AC
	60 V DC
Nominal operating mode	100% operating factor
Max. current carrying capacity per path	1 A

#### Air clearances and creepage distances

Rated insulation voltage	63 V
Rated surge voltage	0.6 kV (1.2/50 µs)

### Cable/line

Cable length	40 m
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#### 50X0.14 [PVC]

UL AWM Style	2464/1061
Number of positions	50
Shielded	yes
Cable type	50X0.14 [PVC]
Conductor type	Assembled shielded round cable
Conductor structure signal line	7x 0.16 mm
AWG signal line	26
Conductor cross-section	50x 0.14 mm <sup>2</sup>
Wire diameter incl. insulation	1 mm ±0.03 mm
External cable diameter	11.00 mm ±0.3 mm
Outer sheath, material	Semi-rigid PVC

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External sheath, color	gray
Conductor material	Tin-plated Cu litz wires
Cable resistance	$\leq 145 \Omega/\text{km}$ (at 20 °C)
Insulation resistance	$\geq 20 \text{ M}\Omega \cdot \text{km}$ (20 °C)
Smallest bending radius, fixed installation	114 mm
Smallest bending radius, movable installation	205 mm
Dynamic load capacity (bending)	Max. bending cycles: 5000 (at a radius of $\geq 18x$ 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)
Cable type	Cable for one module

## Connection data

### Field level

Connection method	Single wires
Number of positions	48
Note	The wires are marked and fitted with ferrules

### Controller level

Connection in acc. with standard	IEC 60603-13
Connection method	IDC/FLK socket strip
Number of connections	1
Number of positions	50
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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## Environmental product compliance

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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