

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



2909786

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

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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
--------------	--------------

#### 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
--------------	------

#### 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

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



2909786

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

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
-----------------------	--------------

## 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.
--------------------	--

## Drawings

Diagram



Maximum permissible current per path in uncoiled state

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



2909786

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

## 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%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)