

# VIP-CAB-FLK50/FR/OE/0,14/3,0M - Round cable



2900150

<https://www.phoenixcontact.com/us/products/2900150>

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Round cable set; connection 1: Single wires (50-position) (The wires are marked and fitted with ferrules); connection 2: IDC/FLK socket strip (1x 50-position, 90 °-out put); cable length: 3 m

## Your advantages

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

## Commercial data

Item number	2900150
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C423
Product key	DK2223
GTIN	4046356477031
Weight per piece (including packing)	508.7 g
Weight per piece (excluding packing)	508.7 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

Ambient temperature (operation)	-20 °C ... 50 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

### Electrical properties

Operating voltage (AC)	≤ 50 V AC
Operating voltage (DC)	≤ 60 V DC
Current (Per path)	≤ 1 A

### Cable/line

Cable length	3 m
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#### 50X0.14 [PVC]

UL AWM Style	2464/1061
Number of positions	50
Shielded	no
Cable type	50X0.14 [PVC]
Conductor type	Round cable set
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	10.30 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	86 mm
Smallest bending radius, movable installation	161 mm
Dynamic load capacity (bending)	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

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Resistance to oil	can withstand occasional splashes (raw cable)
Cable type	Cable for one module

Color code: Single-core wire

black	IDC/FLK50 (1) = ()
brown	IDC/FLK50 (2) = ()
red	IDC/FLK50 (3) = ()
orange	IDC/FLK50 (4) = ()
yellow	IDC/FLK50 (5) = ()
green	IDC/FLK50 (6) = ()
blue	IDC/FLK50 (7) = ()
violet	IDC/FLK50 (8) = ()
gray	IDC/FLK50 (9) = ()
white	IDC/FLK50 (10) = ()
white-black	IDC/FLK50 (11) = ()
white-brown	IDC/FLK50 (12) = ()
white-red	IDC/FLK50 (13) = ()
white-orange	IDC/FLK50 (14) = ()
white-yellow	IDC/FLK50 (15) = ()
white-green	IDC/FLK50 (16) = ()
white-blue	IDC/FLK50 (17) = ()
white-violet	IDC/FLK50 (18) = ()
white-gray	IDC/FLK50 (19) = ()
brown-black	IDC/FLK50 (20) = ()
brown-red	IDC/FLK50 (21) = ()
brown-orange	IDC/FLK50 (22) = ()
brown-yellow	IDC/FLK50 (23) = ()
brown-green	IDC/FLK50 (24) = ()
brown-blue	IDC/FLK50 (25) = ()
brown-violet	IDC/FLK50 (26) = ()
brown-gray	IDC/FLK50 (27) = ()
brown-white	IDC/FLK50 (28) = ()
green-black	IDC/FLK50 (29) = ()
green-brown	IDC/FLK50 (30) = ()
green-red	IDC/FLK50 (31) = ()
green-orange	IDC/FLK50 (32) = ()
green-blue	IDC/FLK50 (33) = ()
green-violet	IDC/FLK50 (34) = ()
green-gray	IDC/FLK50 (35) = ()
green-white	IDC/FLK50 (36) = ()
yellow-black	IDC/FLK50 (37) = ()
yellow-brown	IDC/FLK50 (38) = ()
yellow-red	IDC/FLK50 (39) = ()
yellow-orange	IDC/FLK50 (40) = ()

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yellow-blue	IDC/FLK50 (41) = ()
yellow-violet	IDC/FLK50 (42) = ()
yellow-gray	IDC/FLK50 (43) = ()
yellow-white	IDC/FLK50 (44) = ()
gray-black	IDC/FLK50 (45) = ()
gray-brown	IDC/FLK50 (46) = ()
gray-red	IDC/FLK50 (47) = ()
gray-orange	IDC/FLK50 (48) = ()
gray-yellow	IDC/FLK50 (49) = ()
gray-green	IDC/FLK50 (50) = ()

## Connection data

### Field level

Connection method	IDC/FLK socket strip
Number of connections	1
Number of positions	50
Exit angle	90 °
Pitch	2.54 mm

### Controller level

Connection method	Single wires
Number of positions	50
Note	The wires are marked and fitted with ferrules

## 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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## 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.
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### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)