

# VIP-CAB-FLK50/ 9,0M/S/SC057 - Cable



2906080

<https://www.phoenixcontact.com/us/products/2906080>

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 with additional shield connection and two molded 50-pos. socket strips (1:1 connection). The cable has two 180° punched-on connectors, cable length: 9 m

## Your advantages

- 50-pos.
- 1:1 connection

## Commercial data

Item number	2906080
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DK2AH2
GTIN	4055626027012
Weight per piece (including packing)	1,791 g
Weight per piece (excluding packing)	1,768.6 g
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	IP20
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 (DC)	≤ 24 V DC
Nominal operating mode	100% operating factor
Current (Per path)	≤ 0.5 A

#### Air clearances and creepage distances

Rated insulation voltage	50 V
Rated surge voltage	0.5 kV (1.2/50 µs)

### Cable/line

Cable length	9 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
External sheath, color	gray

# VIP-CAB-FLK50/ 9,0M/S/SC057 - Cable



2906080

<https://www.phoenixcontact.com/us/products/2906080>

Conductor material	Tin-plated Cu litz wires
Cable resistance	≤ 145 Ω/km (at 20 °C)
Insulation resistance	≥ 20 MΩ*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 ≥ 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

### Flat-ribbon cable connector

Connection in acc. with standard	IEC 60603-13
Connection method	IDC/FLK socket strip
Number of connections	1
Number of positions	50
Exit angle	180 °
Insertion/withdrawal cycles	> 200
Pitch	2.54 mm

### Flat-ribbon cable connector

Connection in acc. with standard	IEC 60603-13
Connection method	IDC/FLK socket strip
Number of connections	1
Number of positions	50
Exit angle	180 °
Insertion/withdrawal cycles	> 200
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

# VIP-CAB-FLK50/ 9,0M/S/SC057 - Cable



2906080

<https://www.phoenixcontact.com/us/products/2906080>

## Classifications

### ECLASS

ECLASS-13.0

27242220

### UNSPSC

UNSPSC 21.0

26121600

# VIP-CAB-FLK50/ 9,0M/S/SC057 - Cable



2906080

<https://www.phoenixcontact.com/us/products/2906080>

## Environmental product compliance

### EU RoHS

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

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

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)