

VIP-CAB-FLK20/0,14/18,0M/S - Cable



2906221

<https://www.phoenixcontact.com/us/products/2906221>

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Assembled shielded round cable with additional shield connection and two molded 20-pos. socket strips (1:1 connection). The cable has two 90° punched-on connectors, cable length: 18 m



Your advantages

- 20-pos.
- 1:1 connection

Commercial data

Item number	2906221
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DK2AH2
GTIN	4055626047393
Weight per piece (including packing)	1,756 g
Weight per piece (excluding packing)	1,756 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	18 m
UL AWM Style	2464/1061
Number of positions	20
Shielded	yes
Conductor type	Assembled shielded round cable
Conductor structure signal line	7x 0.16 mm
AWG signal line	26
Conductor cross section	20x 0.14 mm ²
Wire diameter incl. insulation	1 mm ±0.03 mm
External cable diameter	7.70 mm ±0.3 mm
Outer sheath, material	Semi-rigid PVC
External sheath, color	gray
Conductor material	Tin-plated Cu litz wires
Cable resistance	≤ 145 Ω/km (at 20 °C)
Insulation resistance	≥ 20 MΩ*km (20 °C)

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Smallest bending radius, fixed installation	80 mm
Smallest bending radius, movable installation	144 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)

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	20
Exit angle	90 °
Insertion/withdrawal cycles	> 200
Pitch	2.54 mm

Flat-ribbon cable connector

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Number of connections	1
Number of positions	20
Exit angle	90 °
Insertion/withdrawal cycles	> 200
Pitch	2.54 mm

Standards and regulations

Air clearances and creepage distances

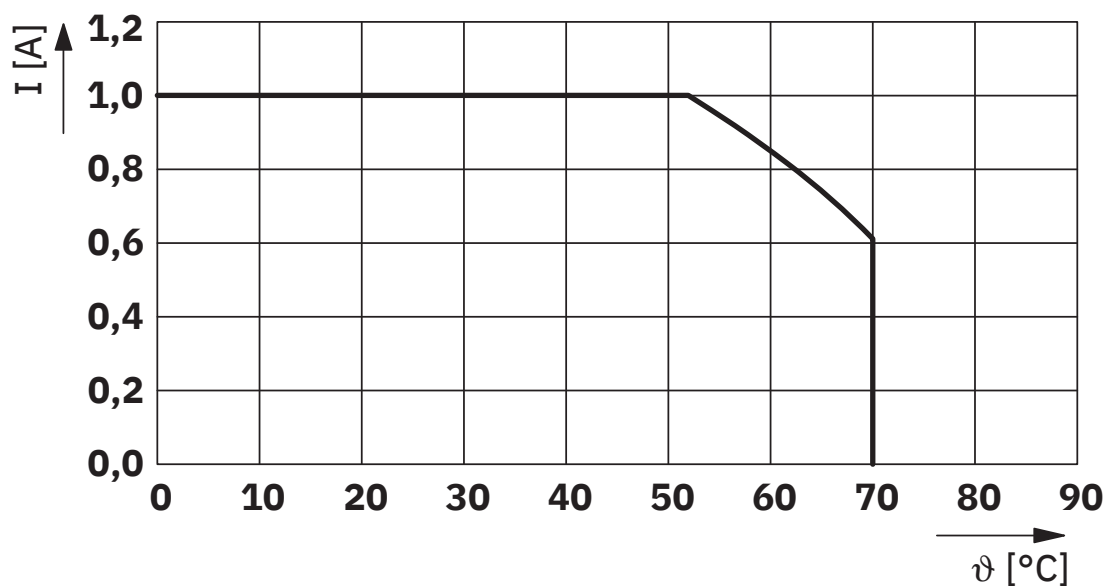
Standards/regulations	DIN EN 50178
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Notes

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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Classifications

ECLASS

ECLASS-13.0	27242220
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ETIM

ETIM 8.0	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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