

Round cable - VIP-CAB-FLK16/FR/OE/0,14/1,0M



2900131

<https://www.phoenixcontact.com/us/products/2900131>

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Round cable set; connection 1: Single wires (16-position) (The wires are marked and fitted with ferrules); connection 2: IDC/FLK socket strip (1x 16-position, 90 °-out put); cable length: 1 m

Your advantages

- 14 and 16-pos.
- Connector in accordance with IEC 60603-13
- 1:1 connection
- Open end at one end

Commercial Data

Item number	2900131
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to Order (non-returnable)
Sales Key	C02
Product Key	CK2331
Catalog Page	Page 584 (C-5-2017)
GTIN	4046356476461
Weight per Piece (including packing)	85.6 g
Weight per Piece (excluding packing)	83.7 g
Customs tariff number	85444290
Country of origin	DE

Technical Data

Product properties

Product type	System cable
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Insulation characteristics

Overvoltage category	II
Pollution degree	2
Insulation	Functional insulation

Ambient conditions

Degree of protection	IP00 ≥ IP54 (Installation location)
Ambient temperature (operation)	-40 °C ... 70 °C (fixed 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 (50 °C) 0.6 A (70 °C)
Rated insulation voltage	63 V
Rated surge voltage	0.6 kV

Cable / line

Cable length	1 m
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16X0.14 [PVC]

Number of positions	16
Shielded	no
Cable type	16X0.14 [PVC]
Conductor type	Round cable set
Conductor structure signal line	7x 0.16 mm
AWG signal line	26
Conductor cross section	16x 0.14 mm ²
Wire diameter incl. insulation	1 mm ±0.03 mm
External cable diameter	6.8 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)

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Insulation resistance	≥ 20 MΩ*km (20 °C)
Smallest bending radius, fixed installation	58 mm
Smallest bending radius, movable installation	108 mm
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
Resistance to oil	can withstand occasional splashes (raw cable)
Type	Cable for one module
Cable, preassembly	Insulation displacement, IEC 60352-4/DIN EN 60352-4

color code

IDC/FLK16 (1)	() = black
IDC/FLK16 (2)	() = brown
IDC/FLK16 (3)	() = red
IDC/FLK16 (4)	() = orange
IDC/FLK16 (5)	() = yellow
IDC/FLK16 (6)	() = green
IDC/FLK16 (7)	() = blue
IDC/FLK16 (8)	() = violet
IDC/FLK16 (9)	() = gray
IDC/FLK16 (10)	() = white
IDC/FLK16 (11)	() = white-black
IDC/FLK16 (12)	() = white-brown
IDC/FLK16 (13)	() = white-red
IDC/FLK16 (14)	() = white-orange
IDC/FLK16 (15)	() = white-yellow
IDC/FLK16 (16)	() = white-green

Connection data

Field level

Connection in acc. with standard	IEC 60603-13
Connection method	IDC/FLK socket strip
Number of connections	1
Number of positions	16
Exit angle	90 °
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

Controller level

Connection method	Single wires
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Number of positions	16
Note	The wires are marked and fitted with ferrules

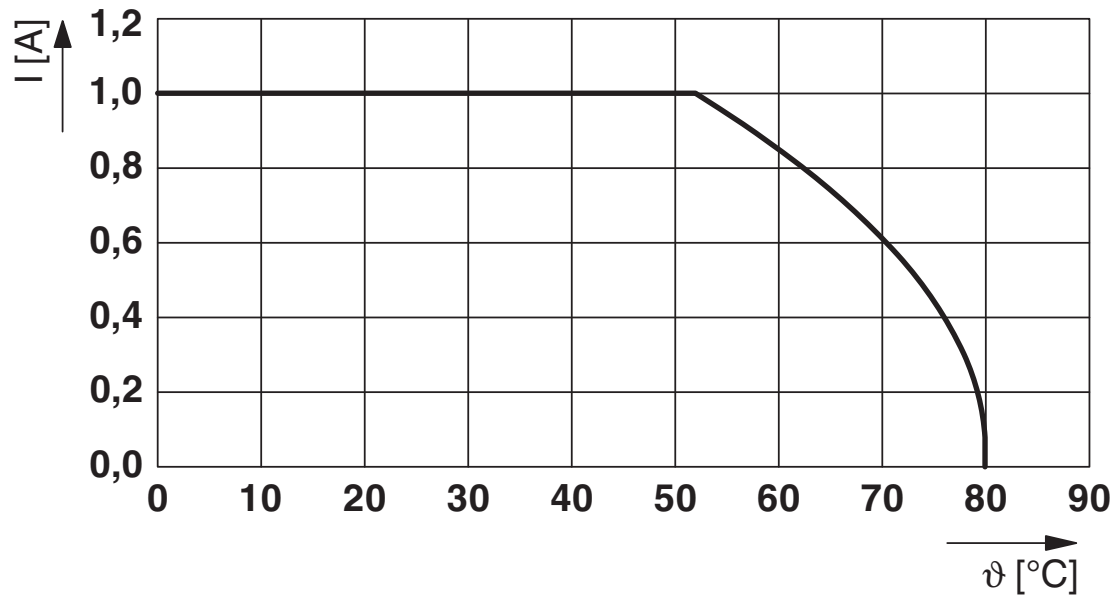
Standards and regulations

Air clearances and creepage distances

Standards/regulations	DIN EN 50178
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Drawings

Diagram



Maximum permissible current per path in uncoiled state

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Approvals



EAC

Approval ID: RU*-DE.HB*35.B00385



UL Listed

Approval ID: FILE E 238705

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	125 V	1 A	-	-



cUL Listed

Approval ID: FILE E 238705

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	125 V	1 A	-	-

cULus Listed

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Classifications

ECLASS

ECLASS-9.0	27242220
ECLASS-10.0.1	27242220
ECLASS-11.0	27242220

ETIM

ETIM 8.0	EC000237
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UNSPSC

UNSPSC 21.0	26121600
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Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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Accessories

Cable marker carrier

Cable marker carrier - KME - 0807083

<https://www.phoenixcontact.com/us/products/0807083>



Cable marker carrier, white, unlabeled, mounting type: Assembly with cable ties, cable diameter: > 5 mm, lettering field size: 20 mm x 8 mm

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