

Cable - FLK 16/EZ-DR/ 100/KONFEK



2299301

<https://www.phoenixcontact.com/gb/products/2299301>

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Round cable set; connection 1: IDC/FLK socket strip (1x 16-position); connection 2: IDC/FLK socket strip (1x 16-position); cable length: 1 m

Your advantages

- Unshielded

Commercial Data

Item number	2299301
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	CK2131
Product Key	CK2131
Catalog Page	Page 566 (C-5-2019)
GTIN	4017918886035
Weight per Piece (including packing)	77 g
Weight per Piece (excluding packing)	69.1 g
Customs tariff number	85444290
Country of origin	DE

Technical Data

Product properties

Product type	System cable
Insulation characteristics	
Overvoltage category	II
Pollution degree	2
Insulation	Functional insulation

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP00
Degree of protection Installation location	≥ 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

Supported controller EMERSON DeltaV

Suitable I/O card	VE4001S2T2B3
	VE4001S2T2B3 Series 2
	VE4001S2T1B3
	VE4002S1T1B3
	VE4002S1T2B3
	VE4002S1T2B3 Series 2
	VE4003S2B4
	VE4005S2B3

Cable / line

Cable length	1 m
16X0.14 [PVC]	
Number of positions	16
Shielded	no

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

Connection data

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Field level

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

Controller level

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

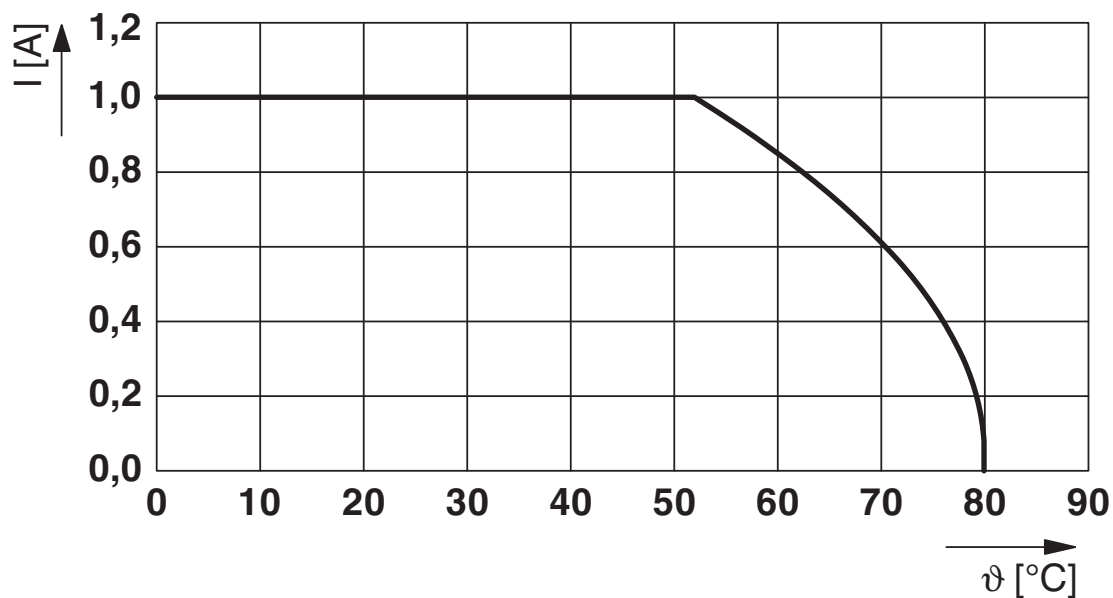
Standards and regulations

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/gb/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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