

FLK 16/EZ-DR/ 50/KONFEK - Cable



2299291

<https://www.phoenixcontact.com/pc/products/2299291>

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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: 0.5 m

Your advantages

- Unshielded

Commercial data

Item number	2299291
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	CK2211
Catalog page	Page 566 (C-5-2019)
GTIN	4017918886028
Weight per piece (including packing)	43.6 g
Weight per piece (excluding packing)	40.3 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

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

Operating voltage (AC)	≤ 30 V AC
Operating voltage (DC)	≤ 60 V DC
Nominal operating mode	100% operating factor
Current (Per path, 50°C)	≤ 1 A (Uncoiled, see derating)
Current (Per path, 70°C)	≤ 0.6 A (Uncoiled, see derating)

Supported controller EMERSON DeltaV

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

Cable/line

Cable length	0.5 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	6.80 mm ±0.4 mm

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Outer sheath, material	Semi-rigid PVC
External sheath, color	gray
Conductor material	Tin-plated Cu litz wires
Cable resistance	$\leq 145 \Omega/\text{km}$ (20 °C)
Insulation resistance	$\geq 20 \text{ M}\Omega \cdot \text{km}$ (20 °C)
Smallest bending radius, fixed installation	58 mm
Smallest bending radius, movable installation	108 mm
Max. bending cycles	5000 (at a radius of $\geq 15 \times$ 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)
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
Cable type	Cable for one module

Connection data

Connection 1

Connection in acc. with standard	based on 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

Connection 2

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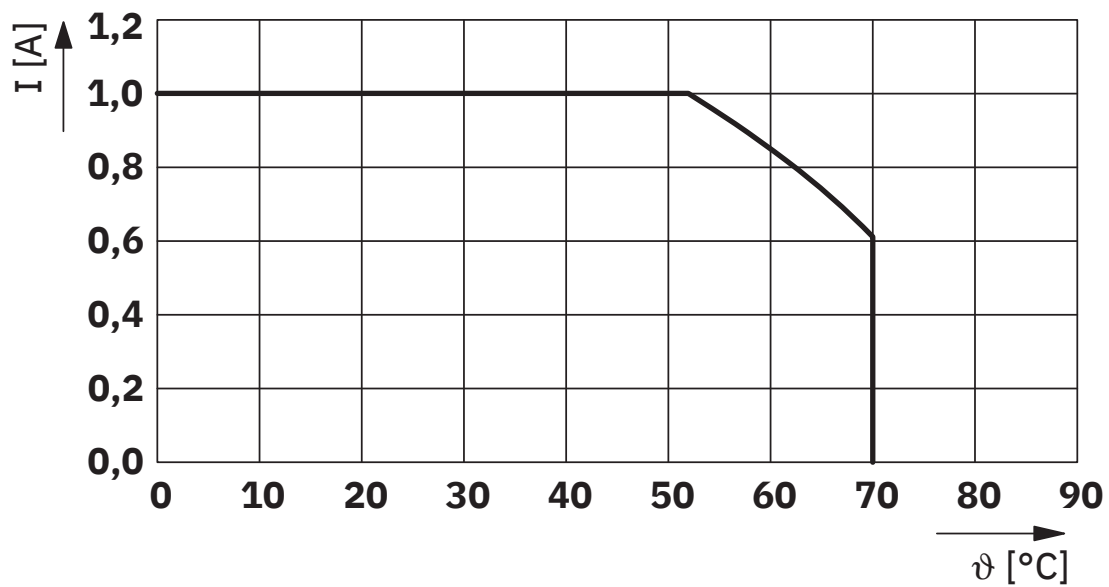
Connection method	IDC/FLK socket strip
Number of connections	1
Number of positions	16
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

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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Approvals

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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-11.0	27242220
ECLASS-12.0	27242220
ECLASS-13.0	27242220

ETIM

ETIM 9.0	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
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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