

System cable - FLK 16/EZ-DR/ 300/KONFEK - 2299330

<https://www.phoenixcontact.com/in/products/2299330>

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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: 3 m

Your advantages

- Unshielded

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Commercial Data

Order Key	2299330
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	CK2
Catalog Page	Page 566 (C-5-2019)
GTIN	4017918886059
Weight per Piece (including packing)	205.2 GRM
Weight per Piece (excluding packing)	186.1 GRM
Customs tariff number	85444290
Country of origin	DE

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Technical Data

Product properties

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
Resistance to oil	can withstand occasional splashes (raw cable)

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
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Cable / line

Cable specification	Cable for one module
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Cable structure

Cable, preassembly	Insulation displacement, IEC 60352-4/DIN EN 60352-4
Type of cable	Round cable set
External cable diameter	6.8 mm ±0.4 mm

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Outer sheath, material	Semi-rigid PVC
External sheath, color	gray
Single wire, number of litz wires	7
Single wire, material	Cu tin-plated
Wire diameter incl. insulation	1 mm ±0.03 mm
Single wire, cross section	0.14 mm ²
Single wire, cross section [AWG]	26
Shielding	no

Electrical properties

Conductor resistance	≤ 145 Ω/km (20 °C)
Cable insulation resistance	≥ 20 MΩ/km (20 °C)

Mechanical properties

Smallest bending radius, fixed installation	58 mm
Smallest bending radius, movable installation	108 mm
Bending cycles	5000 (at a radius of ≥ 15x outside diameter)

Ambient conditions

Halogen-free	No
Resistance to oil	can withstand occasional splashes (raw cable)
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

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

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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
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

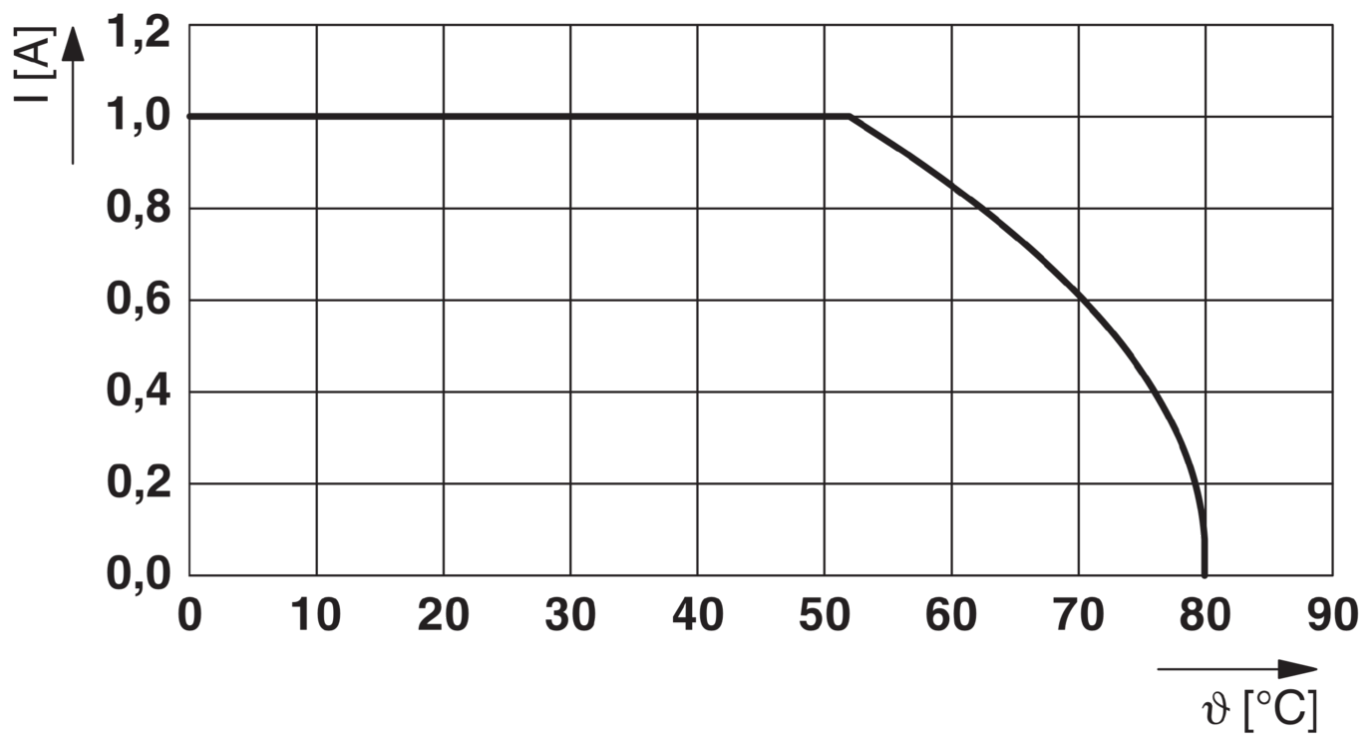
Gasoline resistance	can withstand occasional splashes (raw cable)
Flame resistance	IEC 60332-1-2 (raw cable)
	VDE 0842, Part 332-1-2 (raw cable)
	IEC 60332-3-22 (raw cable)
	UL VW-1
	CSA FT-1
Resistance to oil	can withstand occasional splashes (raw cable)

Air clearances and creepage distances

Standards/regulations	DIN EN 50178
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Drawings

Diagram



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Approvals

UL Listed 

Nominal voltage U_N	125 V
Nominal current I_N	1 A

cUL Listed 

Nominal voltage U_N	125 V
Nominal current I_N	1 A

EAC 

cULus Listed

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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

Marker carrier cable

Marker carrier cable - KME - 0807083



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

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