

Cable - FLK 14/16/EZ-DR/ 150/S7

2293831

<https://www.phoenixcontact.com/us/products/2293831>



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Round cable set; controller: SIMATIC® TOP connect; connection 1: IDC/FLK socket strip (1x 16-position); connection 2: IDC/FLK socket strip (1x 14-position); cable length: 1.5 m

Commercial Data

Item number	2293831
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	C02
Product Key	CK2147
Catalog Page	Page 524 (C-7-2015)
GTIN	4017918125523
Weight per Piece (including packing)	96.7 g
Weight per Piece (excluding packing)	91.4 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

Cable / line

Cable length	1.5 m
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14X0.14 [PVC]

UL AWM Style	2464/1061
Number of positions	14
Shielded	no
Cable type	14X0.14 [PVC]
Conductor type	Round cable set
Conductor structure signal line	7x 0.16 mm
AWG signal line	26
Conductor cross section	14x 0.14 mm ²
Wire diameter incl. insulation	1 mm ±0.03 mm
External cable diameter	6.4 mm ±0.4 mm
Outer sheath, material	Semi-rigid PVC
External sheath, color	gray

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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	55 mm
Smallest bending radius, movable installation	104 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)
Cable, preassembly	Insulation displacement, IEC 60352-4/DIN EN 60352-4

color code

IDC/FLK16 (1)	IDC/FLK14 (10) = white
IDC/FLK16 (2)	IDC/FLK14 (8) = violet
IDC/FLK16 (3)	IDC/FLK14 (12) = white-brown
IDC/FLK16 (4)	IDC/FLK14 (7) = blue
IDC/FLK16 (5)	IDC/FLK14 (14) = white-orange
IDC/FLK16 (6)	IDC/FLK14 (6) = green
IDC/FLK16 (7)	IDC/FLK14 () =
IDC/FLK16 (8)	IDC/FLK14 (5) = yellow
IDC/FLK16 (9)	IDC/FLK14 (9) = gray
IDC/FLK16 (10)	IDC/FLK14 (4) = orange
IDC/FLK16 (11)	IDC/FLK14 (11) = white-black
IDC/FLK16 (12)	IDC/FLK14 (3) = red
IDC/FLK16 (13)	IDC/FLK14 (13) = white-red
IDC/FLK16 (14)	IDC/FLK14 (2) = brown
IDC/FLK16 (15)	IDC/FLK14 () =
IDC/FLK16 (16)	IDC/FLK14 (1) = black

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	14
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

Controller level

Connection in acc. with standard	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

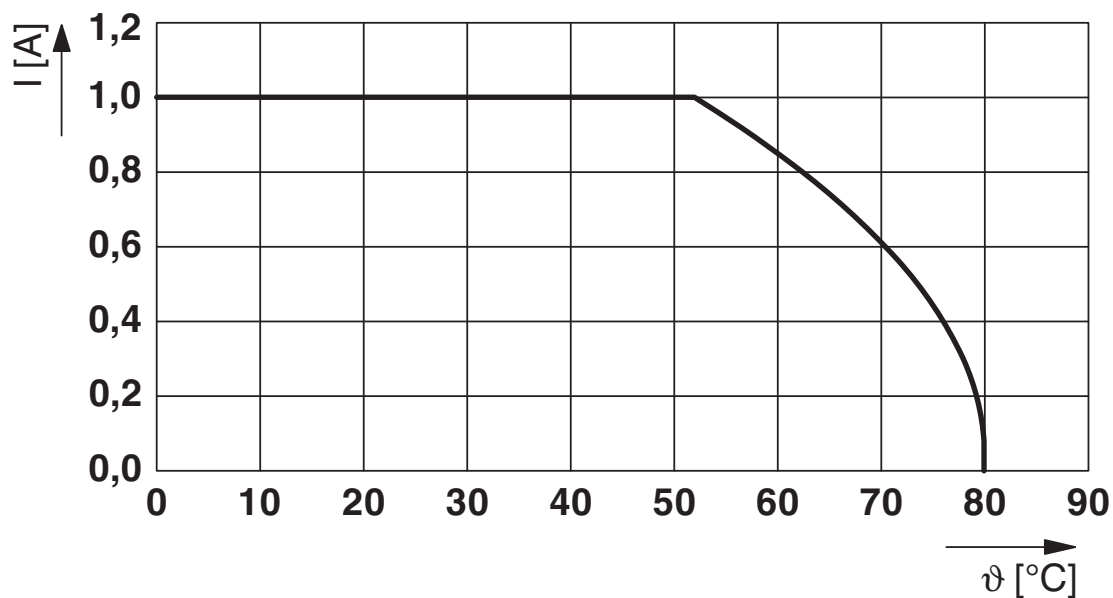
Standards and regulations

Air clearances and creepage distances

Standards/regulations	DIN EN 50178
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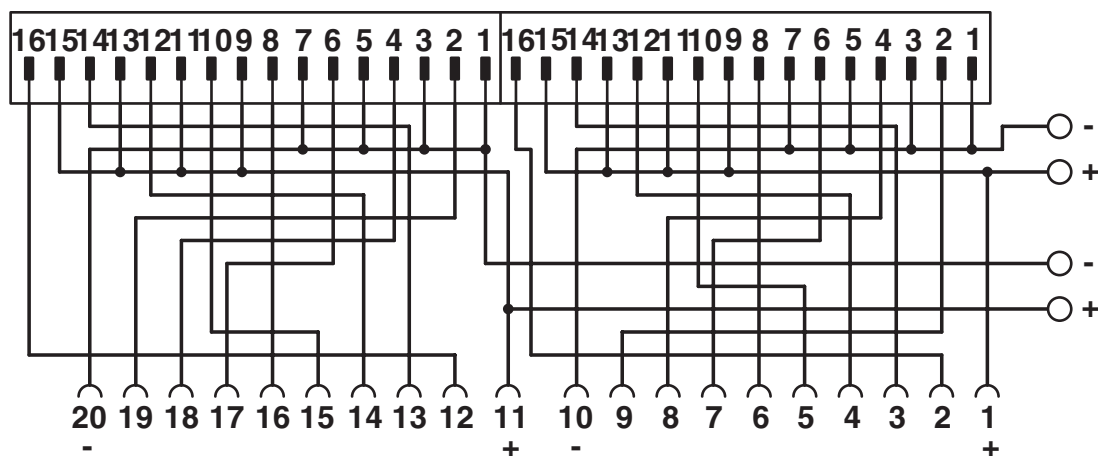
Drawings

Diagram



Maximum permissible current per path in uncoiled state

Circuit diagram



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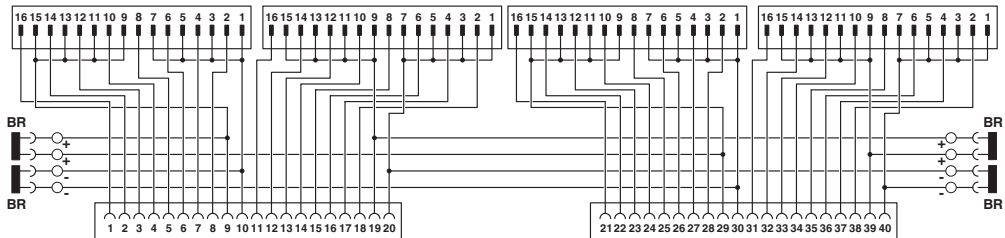
<https://www.phoenixcontact.com/us/products/2293831>

Connection diagram

14-pos. Socket strip PIN	16-pos. Socket strip PIN	Wire color
1	16	Black
2	14	Brown
3	12	Red
4	10	Orange
5	8	Yellow
6	6	Green
7	4	Blue
8	2	Violet
9	9	Gray
10	1	White
11	11	White-black
12	3	White-brown
13	13	White-red
14	5	White-orange
	7	-
	15	-

Pin assignment and color code

Circuit diagram



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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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