

Cable - CABLE-FLK50/OE/0,14/ 50



2305871

<https://www.phoenixcontact.com/us/products/2305871>

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Round cable set; connection 1: Single wires (50-position) (The wires are marked and fitted with ferrules); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 0.5 m

Your advantages

- 20 and 50-pos.
- Connector in accordance with IEC 60603-13
- 1:1 connection
- Open end at one end

Commercial Data

Item number	2305871
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to Order (non-returnable)
Sales Key	C02
Product Key	CK2134
Catalog Page	Page 563 (C-5-2019)
GTIN	4046356039208
Weight per Piece (including packing)	105.6 g
Weight per Piece (excluding packing)	101.9 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

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	0.5 m
50X0.14 [PVC]	
UL AWM Style	2464/1061
Number of positions	50
Shielded	no
Cable type	50X0.14 [PVC]
Conductor type	Round cable set
Conductor structure signal line	7x 0.16 mm
AWG signal line	26
Conductor cross section	50x 0.14 mm ²
Wire diameter incl. insulation	1 mm ±0.03 mm
External cable diameter	10.3 mm ±0.4 mm
Outer sheath, material	Semi-rigid PVC
External sheath, color	gray
Conductor material	Tin-plated Cu litz wires

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Cable resistance	≤ 145 Ω/km (20 °C)
Insulation resistance	≥ 20 MΩ*km (20 °C)
Smallest bending radius, fixed installation	86 mm
Smallest bending radius, movable installation	161 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/FLK50 (1)	() = black
IDC/FLK50 (2)	() = brown
IDC/FLK50 (3)	() = red
IDC/FLK50 (4)	() = orange
IDC/FLK50 (5)	() = yellow
IDC/FLK50 (6)	() = green
IDC/FLK50 (7)	() = blue
IDC/FLK50 (8)	() = violet
IDC/FLK50 (9)	() = gray
IDC/FLK50 (10)	() = white
IDC/FLK50 (11)	() = white-black
IDC/FLK50 (12)	() = white-brown
IDC/FLK50 (13)	() = white-red
IDC/FLK50 (14)	() = white-orange
IDC/FLK50 (15)	() = white-yellow
IDC/FLK50 (16)	() = white-green
IDC/FLK50 (17)	() = white-blue
IDC/FLK50 (18)	() = white-violet
IDC/FLK50 (19)	() = white-gray
IDC/FLK50 (20)	() = brown-black
IDC/FLK50 (21)	() = brown-red
IDC/FLK50 (22)	() = brown-orange
IDC/FLK50 (23)	() = brown-yellow
IDC/FLK50 (24)	() = brown-green
IDC/FLK50 (25)	() = brown-blue
IDC/FLK50 (26)	() = brown-violet
IDC/FLK50 (27)	() = brown-gray
IDC/FLK50 (28)	() = brown-white

IDC/FLK50 (29)	() = green-black
IDC/FLK50 (30)	() = green-brown
IDC/FLK50 (31)	() = green-red
IDC/FLK50 (32)	() = green-orange
IDC/FLK50 (33)	() = green-blue
IDC/FLK50 (34)	() = green-violet
IDC/FLK50 (35)	() = green-gray
IDC/FLK50 (36)	() = green-white
IDC/FLK50 (37)	() = yellow-black
IDC/FLK50 (38)	() = yellow-brown
IDC/FLK50 (39)	() = yellow-red
IDC/FLK50 (40)	() = yellow-orange
IDC/FLK50 (41)	() = yellow-blue
IDC/FLK50 (42)	() = yellow-violet
IDC/FLK50 (43)	() = yellow-gray
IDC/FLK50 (44)	() = yellow-white
IDC/FLK50 (45)	() = gray-black
IDC/FLK50 (46)	() = gray-brown
IDC/FLK50 (47)	() = gray-red
IDC/FLK50 (48)	() = gray-orange
IDC/FLK50 (49)	() = gray-yellow
IDC/FLK50 (50)	() = gray-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	50
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

Controller level

Connection method	Single wires
Number of positions	50
Note	The wires are marked and fitted with ferrules

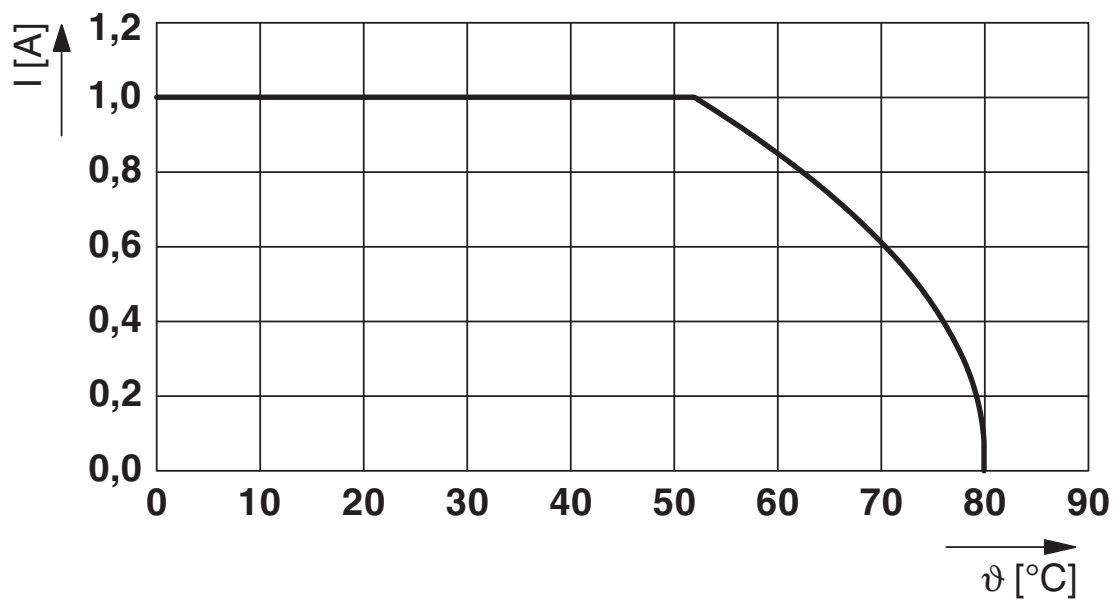
Standards and regulations

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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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com