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

2305871

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

PHŒNIX CONTACT

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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	C421
Product key	CK2213
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

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Technical data

Product properties

Product type	System cable

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)

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 mm²
Wire diameter incl. insulation	1 mm ±0.03 mm
External cable diameter	10.30 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	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)
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
Cable type	Cable for one module

Connection data

Connection 1

Connection method	Single wires
Stripping length (Sheath)	≈ ⌣⏛⏚↓ mm
Number of positions	50
Note	The wires are marked and fitted with ferrules

Connection 2

Connection in acc. with standard	based on 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

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.

Drawings

Schematic diagram
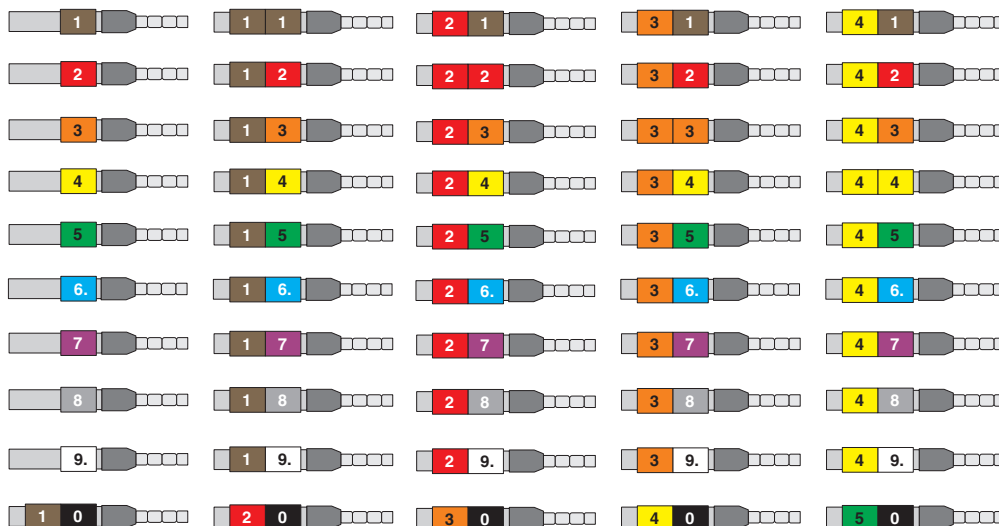
Diagram
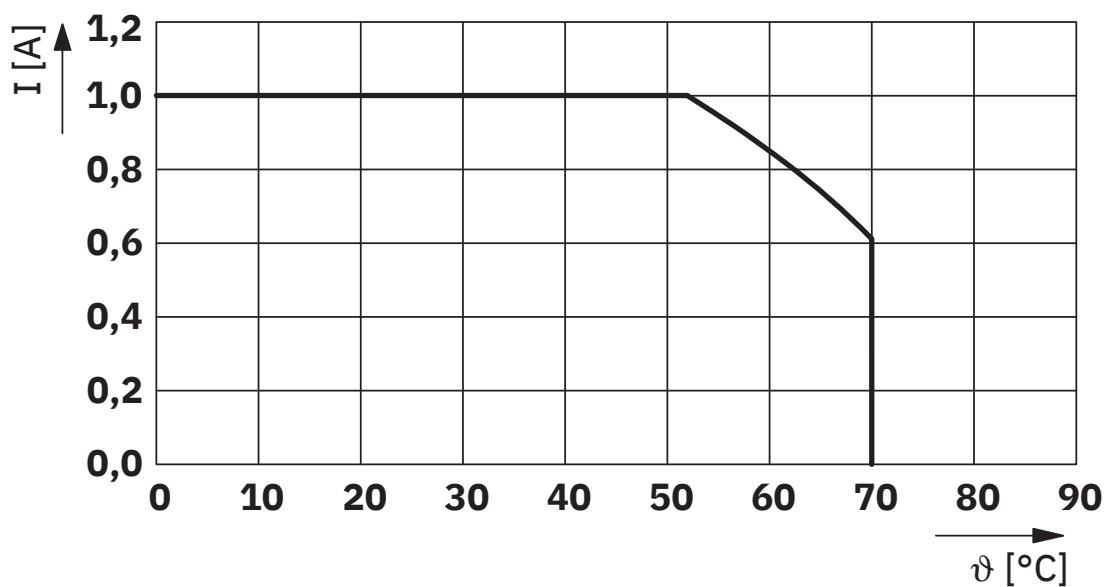
Maximum permissible current per path in uncoiled state

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2305871

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

UNSPSC

UNSPSC 21.0	26121600

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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Accessories

KME - Cable marker carrier

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 x 8 mm