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

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	C421
Product key	DK2213
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

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP00
Degree of protection (Installation location)	≥ IP54 (Installation location)
Ambient temperature (operation) (fixed installation)	-40 °C ... 70 °C (fixed installation)
Ambient temperature (operation) (flexible 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
Dynamic load capacity (bending)	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)
Cable type	Cable for one module

Color code: Single-core wire

black	IDC/FLK50 (1) = ()
brown	IDC/FLK50 (2) = ()
red	IDC/FLK50 (3) = ()
orange	IDC/FLK50 (4) = ()
yellow	IDC/FLK50 (5) = ()
green	IDC/FLK50 (6) = ()
blue	IDC/FLK50 (7) = ()
violet	IDC/FLK50 (8) = ()
gray	IDC/FLK50 (9) = ()
white	IDC/FLK50 (10) = ()
white-black	IDC/FLK50 (11) = ()
white-brown	IDC/FLK50 (12) = ()
white-red	IDC/FLK50 (13) = ()
white-orange	IDC/FLK50 (14) = ()
white-yellow	IDC/FLK50 (15) = ()
white-green	IDC/FLK50 (16) = ()
white-blue	IDC/FLK50 (17) = ()
white-violet	IDC/FLK50 (18) = ()
white-gray	IDC/FLK50 (19) = ()
brown-black	IDC/FLK50 (20) = ()
brown-red	IDC/FLK50 (21) = ()
brown-orange	IDC/FLK50 (22) = ()
brown-yellow	IDC/FLK50 (23) = ()
brown-green	IDC/FLK50 (24) = ()
brown-blue	IDC/FLK50 (25) = ()
brown-violet	IDC/FLK50 (26) = ()
brown-gray	IDC/FLK50 (27) = ()
brown-white	IDC/FLK50 (28) = ()
green-black	IDC/FLK50 (29) = ()
green-brown	IDC/FLK50 (30) = ()
green-red	IDC/FLK50 (31) = ()
green-orange	IDC/FLK50 (32) = ()
green-blue	IDC/FLK50 (33) = ()
green-violet	IDC/FLK50 (34) = ()

green-gray	IDC/FLK50 (35) = ()
green-white	IDC/FLK50 (36) = ()
yellow-black	IDC/FLK50 (37) = ()
yellow-brown	IDC/FLK50 (38) = ()
yellow-red	IDC/FLK50 (39) = ()
yellow-orange	IDC/FLK50 (40) = ()
yellow-blue	IDC/FLK50 (41) = ()
yellow-violet	IDC/FLK50 (42) = ()
yellow-gray	IDC/FLK50 (43) = ()
yellow-white	IDC/FLK50 (44) = ()
gray-black	IDC/FLK50 (45) = ()
gray-brown	IDC/FLK50 (46) = ()
gray-red	IDC/FLK50 (47) = ()
gray-orange	IDC/FLK50 (48) = ()
gray-yellow	IDC/FLK50 (49) = ()
gray-green	IDC/FLK50 (50) = ()

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

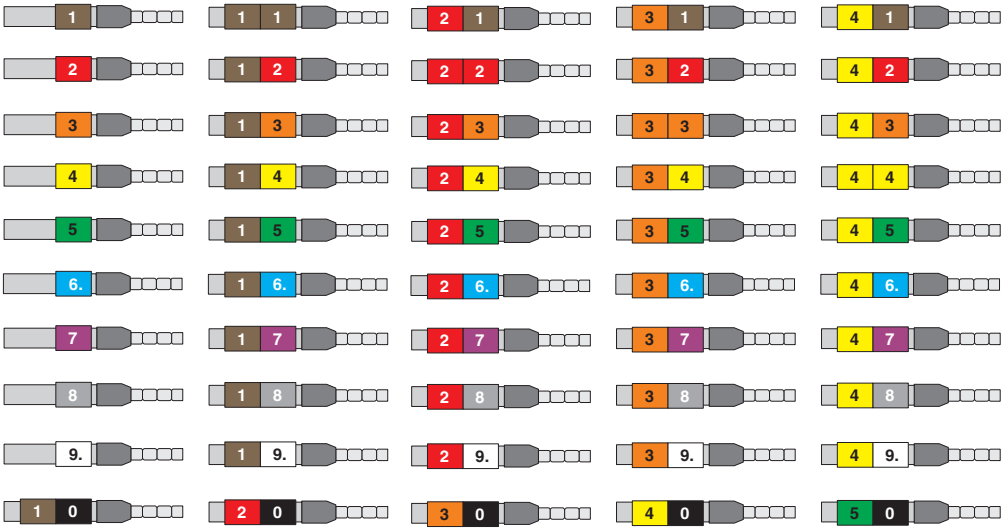
Connection in acc. with standard	IEC 60603-13 (in compliance)
Connection method	IDC/FLK socket strip
Number of connections	1
Number of positions	50
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

Notes

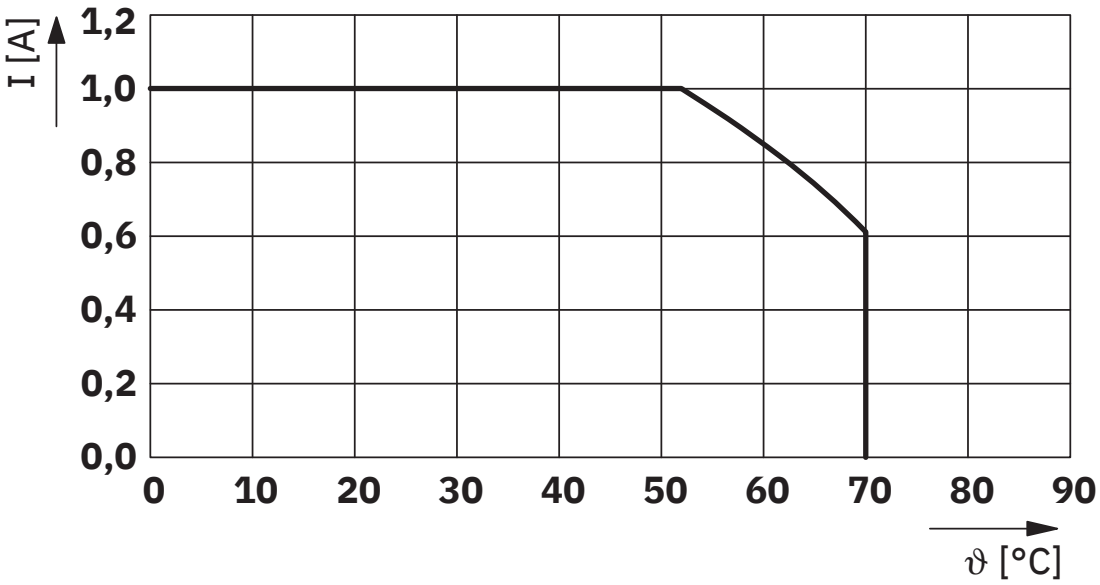
Notes on operation	For proper use, the specifications of the installation directive (see Downloads) must be observed. For applications or use with third-party products, the specifications, and the safety and warning instructions of the respective third-party manufacturer must also be met.

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: E238705

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	125 V	1 A	-	-

cUL Listed
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	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	125 V	1 A	-	-

Classifications

ECLASS

ECLASS-13.0	27242220
ECLASS-15.0	27242220

ETIM

ETIM 10.0	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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