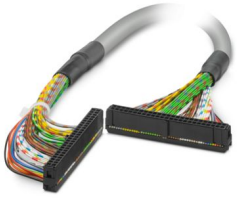
FLK 50/EZ-DR/ 250/KONFEK - Cable

2289104

https://www.phoenixcontact.com/us/products/2289104

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Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 2.5 m

Commercial data

Item number	2289104
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C421
Product key	DK2211
GTIN	4017918057497
Weight per piece (including packing)	404 g
Weight per piece (excluding packing)	395.5 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)

Supported controller: SIEMENS S7-1500

Suitable I/O card	6ES7521-1BL00-0AB0
	6ES7521-1BL10-0AA0
	6ES7522-1BL00-0AB0
	6ES7522-1BL01-0AB0
	6ES7522-1BL10-0AA0
	6ES7523-1BL00-0AA0
	6ES7531-7KF00-0AB0
	6ES7531-7LH00-0AB0
	6ES7531-7MH00-0AB0
	6ES7531-7NF00-0AB0
	6ES7531-7NF10-0AB0
	6ES7531-7PF00-0AB0
	6ES7532-5HF00-0AB0

Supported controller: SIEMENS S7-300 / ET 200 M

Suitable I/O card	CPU 313C
	CPU 313C-2DP
	CPU 313C-2PtP
	CPU 314C-2DP
	CPU 314C-2PtP
	6ES7321-1BL00-0AA0
	6ES7322-1BL00-0AA0

	6ES7322-8BH01-0AB0
	6ES7323-1BL00-0AA0
	6ES7331-1KF01-0AB0
	6ES7331-7NF00-0AB0
	6ES7331-7NF10-0AB0
	6ES7331-7PF01-0AB0
	6ES7331-7PF11-0AB0
	6ES7332-5HF00-0AB0
	6ES7350-2AH01-0AE0
	6ES7357-4AH01-0AE0

Supported controller: SIEMENS S7-400

Suitable I/O card	6ES7421-1BL01-0AA0
	6ES7421-7BH01-0AB0
	6ES7421-7DH00-0AA0
	6ES7422-1BL00-0AA0
	6ES7422-7BL00-0AB0
	6ES7431-0HH0-0AB0
	6ES7431-1KF00-0AB0
	6ES7431-1KF10-0AB0
	6ES7431-1KF20-0AB0
	6ES7431-7KF00-0AB0
	6ES7431-7KF10-0AB0
	6ES7431-7QH00-0AB0
	6ES7432-1HF00-0AB0

Supported controller: SCHNEIDER ELECTRIC Modicon TSX QUANTUM

Suitable I/O card	DDI 353
	DDI 841
	DDI 853
	DAI 340
	DAI 440
	DAI 453
	DDO 353
	DDM 390
	ACI 030
	ACI 040
	ATI 030
	ARI 030
	AVI 030
	ACO 020
	ACO 130
	AVO 020
	EHC 105
	EHC 202

Supported controller: ALLEN-BRADLEY ControlLogix

Suitable I/O card	1756-IA16I
	1756-IB16D
	1756-IB16I
	1756-IB32
	1756-IH16I
	1756-OB32
	1756-IF8
	1756-IF16
	1756-HSC
	1756-M02AE

Supported controller: HONEYWELL Experion PKS C200

Suitable I/O card	TC-IDK 161
	TC-IDX 161
	TC-IDJ 161
	TC-IDD 321
	TC-ODD 321
	TC-IAH 161

Cable/line

Cable length	2.5 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
	IEC 60332-1-2 (raw cable)

Flame resistance	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) = IDC/FLK50 (1)
brown	IDC/FLK50 (2) = IDC/FLK50 (2)
red	IDC/FLK50 (3) = IDC/FLK50 (3)
orange	IDC/FLK50 (4) = IDC/FLK50 (4)
yellow	IDC/FLK50 (5) = IDC/FLK50 (5)
green	IDC/FLK50 (6) = IDC/FLK50 (6)
blue	IDC/FLK50 (7) = IDC/FLK50 (7)
violet	IDC/FLK50 (8) = IDC/FLK50 (8)
gray	IDC/FLK50 (9) = IDC/FLK50 (9)
white	IDC/FLK50 (10) = IDC/FLK50 (10)
white-black	IDC/FLK50 (11) = IDC/FLK50 (11)
white-brown	IDC/FLK50 (12) = IDC/FLK50 (12)
white-red	IDC/FLK50 (13) = IDC/FLK50 (13)
white-orange	IDC/FLK50 (14) = IDC/FLK50 (14)
white-yellow	IDC/FLK50 (15) = IDC/FLK50 (15)
white-green	IDC/FLK50 (16) = IDC/FLK50 (16)
white-blue	IDC/FLK50 (17) = IDC/FLK50 (17)
white-violet	IDC/FLK50 (18) = IDC/FLK50 (18)
white-gray	IDC/FLK50 (19) = IDC/FLK50 (19)
brown-black	IDC/FLK50 (20) = IDC/FLK50 (20)
brown-red	IDC/FLK50 (21) = IDC/FLK50 (21)
brown-orange	IDC/FLK50 (22) = IDC/FLK50 (22)
brown-yellow	IDC/FLK50 (23) = IDC/FLK50 (23)
brown-green	IDC/FLK50 (24) = IDC/FLK50 (24)
brown-blue	IDC/FLK50 (25) = IDC/FLK50 (25)
brown-violet	IDC/FLK50 (26) = IDC/FLK50 (26)
brown-gray	IDC/FLK50 (27) = IDC/FLK50 (27)
brown-white	IDC/FLK50 (28) = IDC/FLK50 (28)
green-black	IDC/FLK50 (29) = IDC/FLK50 (29)
green-brown	IDC/FLK50 (30) = IDC/FLK50 (30)
green-red	IDC/FLK50 (31) = IDC/FLK50 (31)
green-orange	IDC/FLK50 (32) = IDC/FLK50 (32)
green-blue	IDC/FLK50 (33) = IDC/FLK50 (33)
green-violet	IDC/FLK50 (34) = IDC/FLK50 (34)
green-gray	IDC/FLK50 (35) = IDC/FLK50 (35)
green-white	IDC/FLK50 (36) = IDC/FLK50 (36)

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

Connection data

Connection 1

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

Connection 2

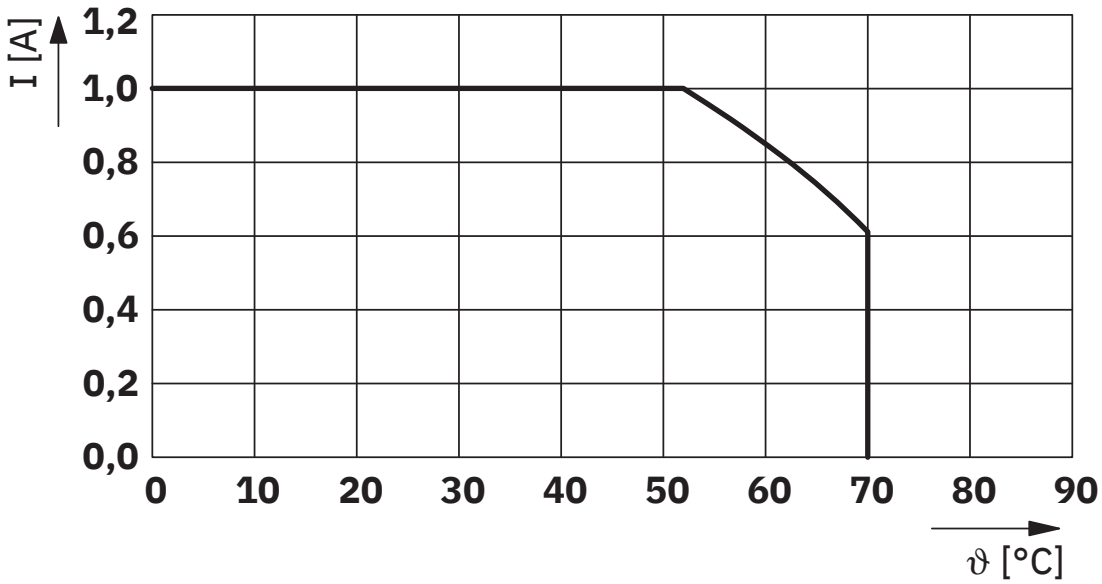
Connection in acc. with standard	IEC 60603-13 (in compliance)
Connection method	IDC/FLK socket strip
Number of connections	1
Number of positions	50
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

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

Diagram



Maximum permissible current per path in uncoiled state

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2289104

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
Approval ID: E238705

	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%

EF3.1 Climate Change

CO2e kg	3.486 kg CO2e

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