

# FLK 50/EZ-DR/ 800/KONFEK/S - Cable



2299165

<https://www.phoenixcontact.com/us/products/2299165>

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Assembled shielded round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position) (The braided shield is routed to a separate cable end.); cable length: 8 m

## Commercial data

Item number	2299165
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C421
Product key	DK2212
GTIN	4017918832223
Weight per piece (including packing)	1,500 g
Weight per piece (excluding packing)	1,451 g
Customs tariff number	85444290
Country of origin	DE

## Technical data

### Product properties

Product type	System cable
Insulation characteristics: Air clearances and creepage distances	
Insulation	Functional insulation
Overvoltage category	II
Pollution degree	2

### 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)	≤ 25 V AC
Operating voltage (DC)	≤ 60 V DC
Nominal operating mode	100% operating factor
Current (Per path, 50°C)	≤ 1 A
Current (Per path, 70°C)	≤ 0.6 A

#### Air clearances and creepage distances

Rated insulation voltage	63 V
Rated surge voltage	0.6 kV

#### Supported controller: SIEMENS S7-300 / ET 200 M

Suitable I/O card	CPU 313C-2DP
	CPU 314C-2PtP
	6ES7321-1BL00-0AA0
	6ES7322-1BL00-0AA0
	6ES7323-1BL00-0AA0
	6ES7331-7NF00-0AB0
	6ES7331-7PF01-0AB0
	6ES7331-7PF11-0AB0
	6ES7350-2AH01-0AE0
	6ES7357-4AH01-0AE0
	CPU 314C-2DP
	6ES7332-5HF00-0AB0
	6ES7331-7NF10-0AB0

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	6ES7331-1KF01-0AB0
	CPU 313C
	CPU 313C-2PtP

## 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 353
	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

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	1756-IH16I
	1756-OB32
	1756-IF8
	1756-IF16
	1756-HSC
	1756-M02AE

Supported controller: ALLEN-BRADLEY PLC 5

Suitable I/O card	1771 IBN
	1771 OBN

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

Supported controller: ALLEN-BRADLEY SLC 500

Suitable I/O card	1746 OA16
	1746 OW16

## Cable/line

Cable length	8 m
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### 50X0.14 [PVC]

UL AWM Style	2464/1061
Number of positions	50
Shielded	yes
Cable type	50X0.14 [PVC]
Conductor type	Assembled shielded round cable
Conductor structure signal line	7x 0.16 mm
AWG signal line	26
Conductor cross-section	50x 0.14 mm <sup>2</sup>
Wire diameter incl. insulation	1 mm ±0.03 mm
External cable diameter	11.00 mm ±0.3 mm
Outer sheath, material	Semi-rigid PVC
External sheath, color	gray
Conductor material	Tin-plated Cu litz wires
Cable resistance	≤ 145 Ω/km (at 20 °C)
Insulation resistance	≥ 20 MΩ*km (20 °C)
Smallest bending radius, fixed installation	114 mm
Smallest bending radius, movable installation	205 mm
Dynamic load capacity (bending)	Max. bending cycles: 5000 (at a radius of ≥ 18x outside diameter)

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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) = 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)

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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

### Field level

Connection in acc. with standard	IEC 60603-13
Connection method	IDC/FLK socket strip
Number of connections	1
Number of positions	50
Note	The braided shield is routed to a separate cable end. The separate cable end is approximately 0.5 m long (H05V-K 1 mm <sup>2</sup> , black)
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

### Controller 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

## Standards and regulations

### Air clearances and creepage distances

Standards/regulations	DIN EN 50178
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## 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
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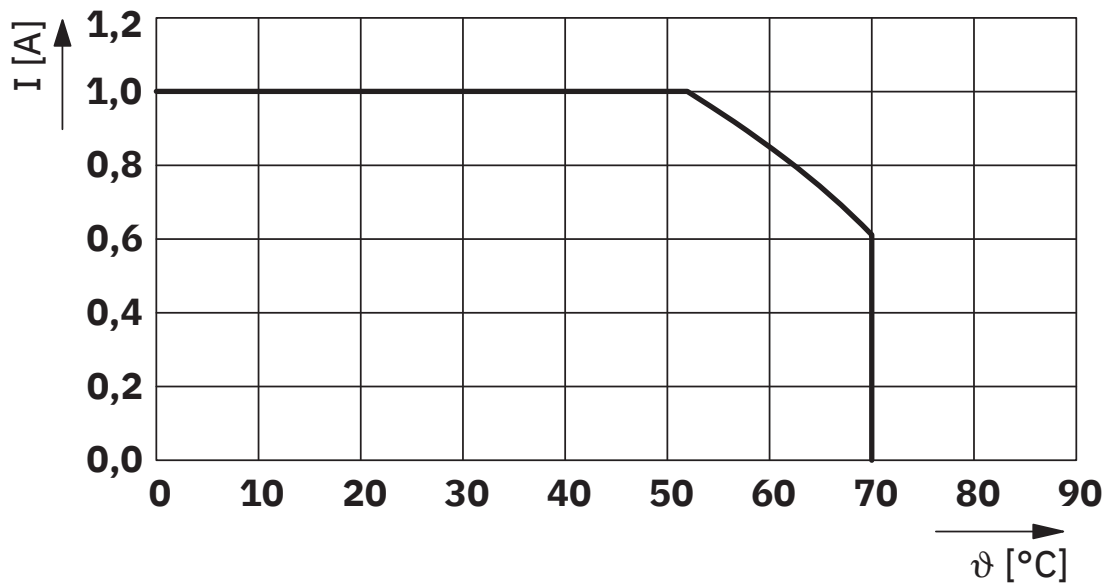
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instructions of the respective third-party manufacturer must also be met.

Drawings

Diagram



Maximum permissible current per path in uncoiled state

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## Classifications

### UNSPSC

UNSPSC 21.0	26121620
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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