

# CABLE-FLK40/4FLK14/HF/S7/2,0M - Cable



1464628

<https://www.phoenixcontact.com/us/products/1464628>

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Assembled, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 40-position); connection 2: IDC/FLK socket strip (4x 14-position); cable length: 2 m



## Commercial data

Item number	1464628
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	DK221S
GTIN	4063151857561
Weight per piece (including packing)	465.6 g
Weight per piece (excluding packing)	458.48 g
Country of origin	DE

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## Technical data

### Product properties

Product type	System cable
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### 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 ... 50 °C (fixed installation)
Ambient temperature (operation) (flexible installation)	-10 °C ... 50 °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	6ES7521-1BP00-0AA0 (Sinking mode)
	6ES7522-1BP00-0AA0
	6ES7522-1BP50-0AA0
	6ES7523-1BP50-0AA0 (DI32 (Sinking mode)/DQ32)

### Cable/line

Cable length	2 m
UL AWM Style	21946
Number of positions	14
Shielded	no
Conductor type	Assembled, halogen-free round cable
Conductor structure signal line	7x 0.16 mm
AWG signal line	26
Conductor cross-section	14x 0.14 mm <sup>2</sup>
Wire diameter incl. insulation	1 mm ±0.03 mm
External cable diameter	5.80 mm ±0.4 mm
Outer sheath, material	halogen-free (type 2)
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)

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Smallest bending radius, fixed installation	50 mm
Smallest bending radius, movable installation	93 mm
Dynamic load capacity (bending)	Max. bending cycles: 5000 (at a radius of $\geq 15x$ outside diameter)
Halogen-free	yes
Flame resistance	IEC 60332-1-2 (raw cable)
	VDE 0842, Part 332-1-2 (raw cable)
	IEC 60332-3-22 (raw cable)
Resistance to oil	can withstand occasional splashes (raw cable)
Cable type	Splitting cable for four modules

Color code: Single-core wire

black	IDC/FLK40 (1) = IDC/FLK14-1 (1)
brown	IDC/FLK40 (3) = IDC/FLK14-1 (2)
red	IDC/FLK40 (5) = IDC/FLK14-1 (3)
orange	IDC/FLK40 (7) = IDC/FLK14-1 (4)
yellow	IDC/FLK40 (9) = IDC/FLK14-1 (5)
green	IDC/FLK40 (11) = IDC/FLK14-1 (6)
blue	IDC/FLK40 (13) = IDC/FLK14-1 (7)
violet	IDC/FLK40 (15) = IDC/FLK14-1 (8)
gray	IDC/FLK40 (19) = IDC/FLK14-1 (9)
white	IDC/FLK40 (17) = IDC/FLK14-1 (10)
black	IDC/FLK40 (21) = IDC/FLK14-2 (1)
brown	IDC/FLK40 (23) = IDC/FLK14-2 (2)
red	IDC/FLK40 (25) = IDC/FLK14-2 (3)
orange	IDC/FLK40 (27) = IDC/FLK14-2 (4)
yellow	IDC/FLK40 (29) = IDC/FLK14-2 (5)
green	IDC/FLK40 (31) = IDC/FLK14-2 (6)
blue	IDC/FLK40 (33) = IDC/FLK14-2 (7)
violet	IDC/FLK40 (35) = IDC/FLK14-2 (8)
gray	IDC/FLK40 (39) = IDC/FLK14-2 (9)
white	IDC/FLK40 (37) = IDC/FLK14-2 (10)
black	IDC/FLK40 (2) = IDC/FLK14-3 (1)
brown	IDC/FLK40 (4) = IDC/FLK14-3 (2)
red	IDC/FLK40 (6) = IDC/FLK14-3 (3)
orange	IDC/FLK40 (8) = IDC/FLK14-3 (4)
yellow	IDC/FLK40 (10) = IDC/FLK14-3 (5)
green	IDC/FLK40 (12) = IDC/FLK14-3 (6)
blue	IDC/FLK40 (14) = IDC/FLK14-3 (7)
violet	IDC/FLK40 (16) = IDC/FLK14-3 (8)
gray	IDC/FLK40 (20) = IDC/FLK14-3 (9)
white	IDC/FLK40 (18) = IDC/FLK14-3 (10)
black	IDC/FLK40 (22) = IDC/FLK14-4 (1)
brown	IDC/FLK40 (24) = IDC/FLK14-4 (2)

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red	IDC/FLK40 (26) = IDC/FLK14-4 (3)
orange	IDC/FLK40 (28) = IDC/FLK14-4 (4)
yellow	IDC/FLK40 (30) = IDC/FLK14-4 (5)
green	IDC/FLK40 (32) = IDC/FLK14-4 (6)
blue	IDC/FLK40 (34) = IDC/FLK14-4 (7)
violet	IDC/FLK40 (36) = IDC/FLK14-4 (8)
gray	IDC/FLK40 (40) = IDC/FLK14-4 (9)
white	IDC/FLK40 (38) = IDC/FLK14-4 (10)

## 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	40
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	4
Number of positions	14
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.
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## Drawings

Diagram



Maximum permissible current per path in uncoiled state

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## Approvals

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**UL Listed**

Approval ID: E238705



**cUL Listed**

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## Classifications

### ECLASS

ECLASS-13.0	27242220
ECLASS-15.0	27242220

### ETIM

ETIM 10.0	EC000237
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### UNSPSC

UNSPSC 21.0	26121600
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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-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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