

# FLK 16/14/DV-IN/ 50 - Cable



2304393

<https://www.phoenixcontact.com/us/products/2304393>

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Round cable set; controller: Emerson Delta V; connection 1: IDC/FLK socket strip (1x 16-position); connection 2: IDC/FLK socket strip (1x 14-position); cable length: 0.5 m

## Your advantages

- The DeltaV system can be used to install the process wiring via "mass termination blocks" (MTBs) using flat-ribbon cable plugs
- For digital modules with 16-pos. MTB for connection to PLC-INTERFACE

## Commercial data

Item number	2304393
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C421
Product key	DK221K
GTIN	4017918933043
Weight per piece (including packing)	42.1 g
Weight per piece (excluding packing)	42.1 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: EMERSON DeltaV

Suitable I/O card	VE4001S2T1B3
	VE4001S2T2B3

### Cable/line

Cable length	0.5 m
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#### 16X0.14 [PVC]

UL AWM Style	2464/1061
Number of positions	16
Shielded	no
Cable type	16X0.14 [PVC]
Conductor type	Round cable set
Conductor structure signal line	7x 0.16 mm
AWG signal line	26

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Conductor cross-section	16x 0.14 mm <sup>2</sup>
Wire diameter incl. insulation	1 mm ±0.03 mm
External cable diameter	6.80 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	58 mm
Smallest bending radius, movable installation	108 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/FLK16 (1) = IDC/FLK14 (1)
brown	IDC/FLK16 (2) = IDC/FLK14 (9)
red	IDC/FLK16 (3) = IDC/FLK14 (2)
orange	IDC/FLK16 (4) = IDC/FLK14 (9)
yellow	IDC/FLK16 (5) = IDC/FLK14 (3)
green	IDC/FLK16 (6) = IDC/FLK14 (9)
blue	IDC/FLK16 (7) = IDC/FLK14 (4)
violet	IDC/FLK16 (8) = IDC/FLK14 (11)
gray	IDC/FLK16 (9) = IDC/FLK14 (5)
white	IDC/FLK16 (10) = IDC/FLK14 (11)
white-black	IDC/FLK16 (11) = IDC/FLK14 (6)
white-brown	IDC/FLK16 (12) = IDC/FLK14 (11)
white-red	IDC/FLK16 (13) = IDC/FLK14 (7)
white-orange	IDC/FLK16 (14) = IDC/FLK14 (13)
white-yellow	IDC/FLK16 (15) = IDC/FLK14 (8)
white-green	IDC/FLK16 (16) = IDC/FLK14 (13)

## Connection data

Field level

Connection in acc. with standard	IEC 60603-13
Connection method	IDC/FLK socket strip
Number of connections	1

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Number of positions	14
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	16
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

## Standards and regulations

### Air clearances and creepage distances

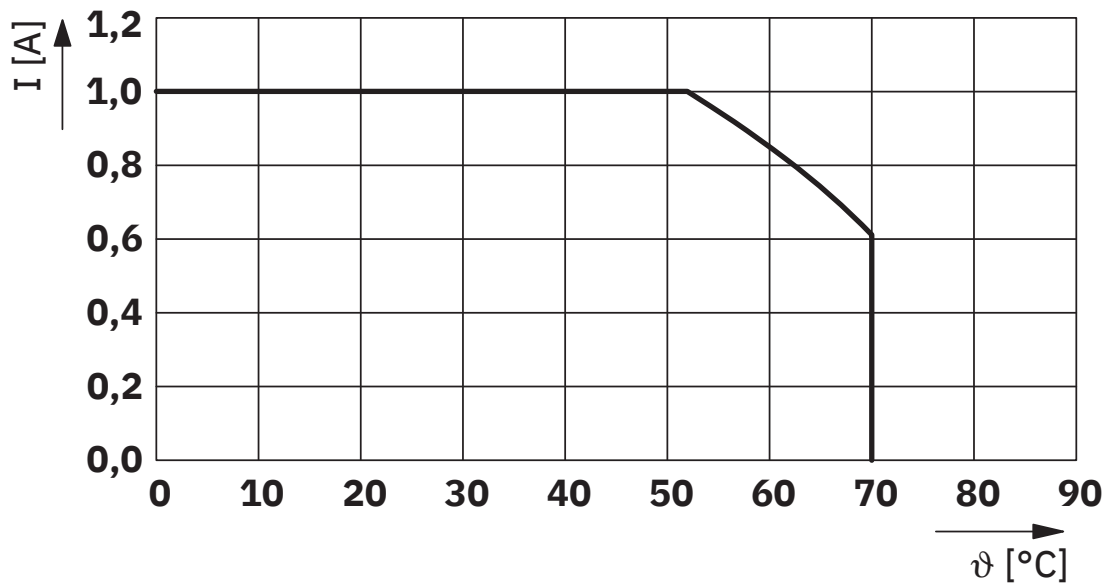
Standards/regulations	DIN EN 50178
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## Notes

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 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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## 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-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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