

# FLK 50/2FLK20/EZ-DR/1000/DV - Cable



2304953

<https://www.phoenixcontact.com/pc/products/2304953>

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Round cable set; controller: Emerson Delta V; connection 1: IDC/FLK socket strip (2x 20-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 10 m

## Your advantages

- The DeltaV system can be used to install the process wiring via "mass termination blocks" (MTBs) using flat-ribbon cable plugs
- System cables specifically designed for 32-channel I/O modules with 40-pin MTB for connecting I/O modules to 32-channel VARIOFACE interface modules

## Commercial data

Item number	2304953
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	CK221K
Catalog page	Page 476 (C-5-2019)
GTIN	4046356011761
Weight per piece (including packing)	1,418.8 g
Weight per piece (excluding packing)	1,418.8 g
Customs tariff number	85444290
Country of origin	DE

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## Technical data

### Product properties

Product type	System cable
Data management status	
Article revision	04

### Environmental and real-life conditions

#### Ambient conditions

Degree of protection	IP00
Degree of protection (Installation location)	≥ IP54 (Installation location)
Ambient temperature (operation)	-40 °C ... 70 °C (fixed 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 EMERSON DeltaV

Suitable I/O card	VE4001S2T2B5 VE4002S1T2B6
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### Cable/line

Cable length	10 m
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#### 40X0.14 [PVC]

UL AWM Style	2464/1061
Number of positions	40
Shielded	no
Cable type	40X0.14 [PVC]
Conductor type	Round cable set
Conductor structure signal line	7x 0.16 mm
AWG signal line	26
Conductor cross section	40x 0.14 mm <sup>2</sup>
Wire diameter incl. insulation	1 mm ±0.03 mm
External cable diameter	9.90 mm ±0.4 mm
Outer sheath, material	Semi-rigid PVC
External sheath, color	gray

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Conductor material	Tin-plated Cu litz wires
Cable resistance	$\leq 145 \Omega/\text{km}$ (20 °C)
Insulation resistance	$\geq 20 \text{ M}\Omega \cdot \text{km}$ (20 °C)
Smallest bending radius, fixed installation	82 mm
Smallest bending radius, movable installation	155 mm
Max. bending cycles	5000 (at a radius of $\geq 15 \times$ 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

black	IDC/FLK50 (3) = IDC/FLK20-1 (1)
brown	IDC/FLK50 (4) = IDC/FLK20-1 (2)
red	IDC/FLK50 (5) = IDC/FLK20-1 (3)
orange	IDC/FLK50 (6) = IDC/FLK20-1 (4)
yellow	IDC/FLK50 (7) = IDC/FLK20-1 (5)
green	IDC/FLK50 (8) = IDC/FLK20-1 (6)
blue	IDC/FLK50 (9) = IDC/FLK20-1 (7)
violet	IDC/FLK50 (10) = IDC/FLK20-1 (8)
gray	IDC/FLK50 (11) = IDC/FLK20-1 (18)
white	IDC/FLK50 (15) = IDC/FLK20-1 (9)
white-black	IDC/FLK50 (16) = IDC/FLK20-1 (10)
white-brown	IDC/FLK50 (17) = IDC/FLK20-1 (11)
white-red	IDC/FLK50 (18) = IDC/FLK20-1 (12)
white-orange	IDC/FLK50 (19) = IDC/FLK20-1 (13)
white-yellow	IDC/FLK50 (20) = IDC/FLK20-1 (14)
white-green	IDC/FLK50 (21) = IDC/FLK20-1 (15)
white-blue	IDC/FLK50 (22) = IDC/FLK20-1 (16)
white-violet	IDC/FLK50 (23) = IDC/FLK20-1 (20)
white-gray	IDC/FLK50 (27) = IDC/FLK20-2 (1)
brown-black	IDC/FLK50 (28) = IDC/FLK20-2 (2)
brown-red	IDC/FLK50 (29) = IDC/FLK20-2 (3)
brown-orange	IDC/FLK50 (30) = IDC/FLK20-2 (4)
brown-yellow	IDC/FLK50 (31) = IDC/FLK20-2 (5)
brown-green	IDC/FLK50 (32) = IDC/FLK20-2 (6)
brown-blue	IDC/FLK50 (33) = IDC/FLK20-2 (7)
brown-violet	IDC/FLK50 (34) = IDC/FLK20-2 (8)
brown-gray	IDC/FLK50 (35) = IDC/FLK20-2 (18)
brown-white	IDC/FLK50 (39) = IDC/FLK20-2 (9)

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green-black	IDC/FLK50 (40) = IDC/FLK20-2 (10)
green-brown	IDC/FLK50 (41) = IDC/FLK20-2 (11)
green-red	IDC/FLK50 (42) = IDC/FLK20-2 (12)
green-orange	IDC/FLK50 (43) = IDC/FLK20-2 (13)
green-blue	IDC/FLK50 (44) = IDC/FLK20-2 (14)
green-violet	IDC/FLK50 (45) = IDC/FLK20-2 (15)
green-gray	IDC/FLK50 (46) = IDC/FLK20-2 (16)
green-white	IDC/FLK50 (47) = IDC/FLK20-2 (20)

## Connection data

### Connection 1

Connection in acc. with standard	based on IEC 60603-13
Connection method	IDC/FLK socket strip
Number of connections	2
Number of positions	20
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

### Connection 2

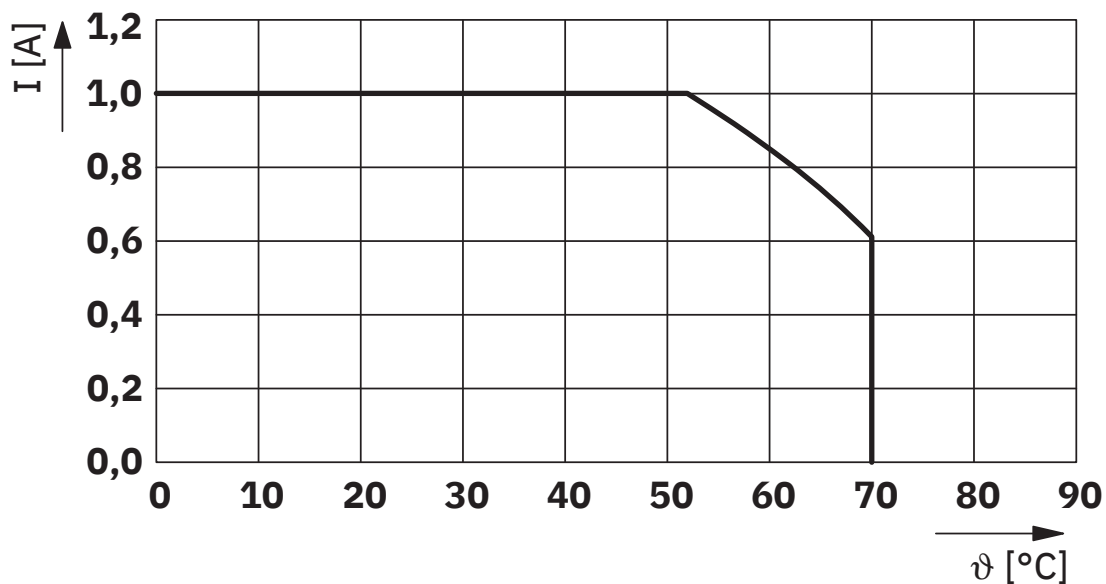
Connection in acc. with standard	based on IEC 60603-13
Connection method	IDC/FLK socket strip
Number of connections	1
Number of positions	50
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

## 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

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/2304953>



**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 $\text{mm}^2$
	125 V	1 A	-	-



**cUL Listed**

Approval ID: E238705

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	125 V	1 A	-	-

**cULus Listed**

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## Classifications

### ECLASS

ECLASS-11.0	27242220
ECLASS-12.0	27242220
ECLASS-13.0	27242220

### ETIM

ETIM 9.0	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
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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## Accessories

### KME - Cable marker carrier

0807083

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Cable marker carrier, white, unlabeled, mounting type: Assembly with cable ties, cable diameter: > 5 mm, lettering field size: 20 x 8 mm

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