

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



2304966

<https://www.phoenixcontact.com/pc/products/2304966>

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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: variable

## 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	2304966
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	CK2152
Catalog page	Page 476 (C-5-2019)
Customs tariff number	85444290
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)	-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	variable
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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	9.9 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)

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Smallest bending radius, fixed installation	82 mm
Smallest bending radius, movable installation	155 mm
Max. bending cycles	5000 (at a radius of $\geq 15x$ 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)

## color code

IDC/FLK50 (3)	IDC/FLK20-1 (1) = black
IDC/FLK50 (4)	IDC/FLK20-1 (2) = brown
IDC/FLK50 (5)	IDC/FLK20-1 (3) = red
IDC/FLK50 (6)	IDC/FLK20-1 (4) = orange
IDC/FLK50 (7)	IDC/FLK20-1 (5) = yellow
IDC/FLK50 (8)	IDC/FLK20-1 (6) = green
IDC/FLK50 (9)	IDC/FLK20-1 (7) = blue
IDC/FLK50 (10)	IDC/FLK20-1 (8) = violet
IDC/FLK50 (11)	IDC/FLK20-1 (18) = gray
IDC/FLK50 (15)	IDC/FLK20-1 (9) = white
IDC/FLK50 (16)	IDC/FLK20-1 (10) = white-black
IDC/FLK50 (17)	IDC/FLK20-1 (11) = white-brown
IDC/FLK50 (18)	IDC/FLK20-1 (12) = white-red
IDC/FLK50 (19)	IDC/FLK20-1 (13) = white-orange
IDC/FLK50 (20)	IDC/FLK20-1 (14) = white-yellow
IDC/FLK50 (21)	IDC/FLK20-1 (15) = white-green
IDC/FLK50 (22)	IDC/FLK20-1 (16) = white-blue
IDC/FLK50 (23)	IDC/FLK20-1 (20) = white-violet
IDC/FLK50 (27)	IDC/FLK20-2 (1) = white-gray
IDC/FLK50 (28)	IDC/FLK20-2 (2) = brown-black
IDC/FLK50 (29)	IDC/FLK20-2 (3) = brown-red
IDC/FLK50 (30)	IDC/FLK20-2 (4) = brown-orange
IDC/FLK50 (31)	IDC/FLK20-2 (5) = brown-yellow
IDC/FLK50 (32)	IDC/FLK20-2 (6) = brown-green
IDC/FLK50 (33)	IDC/FLK20-2 (7) = brown-blue
IDC/FLK50 (34)	IDC/FLK20-2 (8) = brown-violet
IDC/FLK50 (35)	IDC/FLK20-2 (18) = brown-gray
IDC/FLK50 (39)	IDC/FLK20-2 (9) = brown-white
IDC/FLK50 (40)	IDC/FLK20-2 (10) = green-black
IDC/FLK50 (41)	IDC/FLK20-2 (11) = green-brown
IDC/FLK50 (42)	IDC/FLK20-2 (12) = green-red
IDC/FLK50 (43)	IDC/FLK20-2 (13) = green-orange

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IDC/FLK50 (44)	IDC/FLK20-2 (14) = green-blue
IDC/FLK50 (45)	IDC/FLK20-2 (15) = green-violet
IDC/FLK50 (46)	IDC/FLK20-2 (16) = green-gray
IDC/FLK50 (47)	IDC/FLK20-2 (20) = green-white

## 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

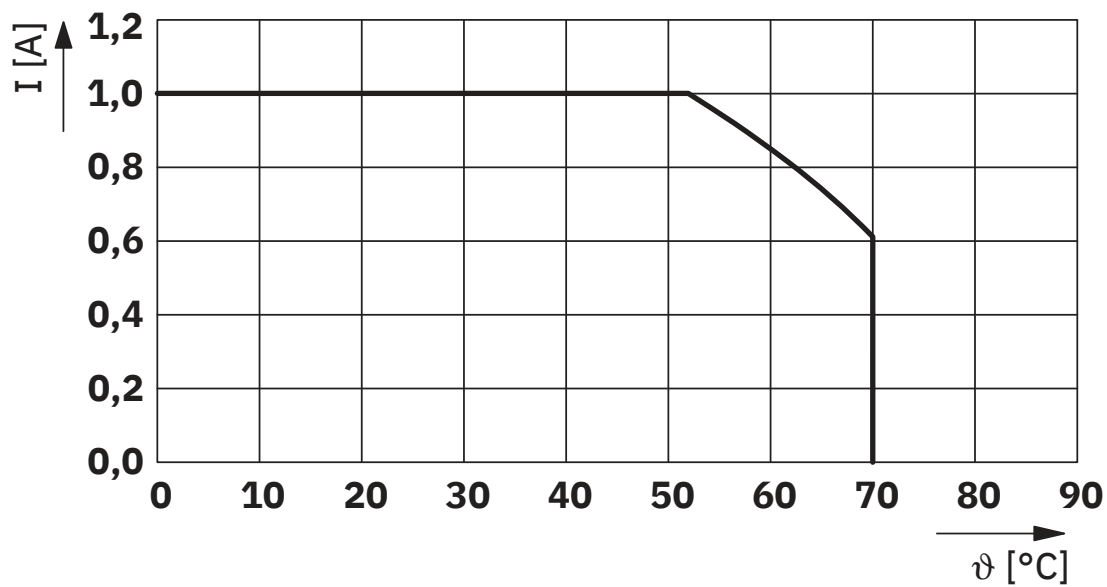
Connection in acc. with standard	based on IEC 60603-13
Connection method	IDC/FLK socket strip
Number of connections	1
Number of positions	50
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

## Notes

General	For proper use, the specifications of the installation directive (see Downloads) must be observed.
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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/2304966>



### EAC

Approval ID: RU\*-DE.HB\*35.B00385



### UL Listed

Approval ID: FILE E 238705

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



### cUL Listed

Approval ID: FILE E 238705

	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 8.0	EC000237
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### UNSPSC

UNSPSC 21.0	26121600
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## Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values



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## Accessories

### KME - Cable marker carrier

0807083

<https://www.phoenixcontact.com/pc/products/0807083>



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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