FLK 50/2FLK20/EZ-DR/ 200/DV - Cable

2304908

https://www.phoenixcontact.com/gb/products/2304908

PHŒNIX CONTACT

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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: 2 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	2304908
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	DK221K
Product key	DK221K
Catalog page	Page 476 (C-5-2019)
GTIN	4046356011716
Weight per piece (including packing)	294.4 g
Weight per piece (excluding packing)	293.4 g
Customs tariff number	85444290
Country of origin	DE

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Technical data

Product properties

Product type	System cable

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

Cable/line

Cable length	2 m

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 mm²
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
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
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	
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)
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	IEC 60603-13 (in compliance)
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	IEC 60603-13 (in compliance)
Connection method	IDC/FLK socket strip
Number of connections	1
Number of positions	50
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

Notes

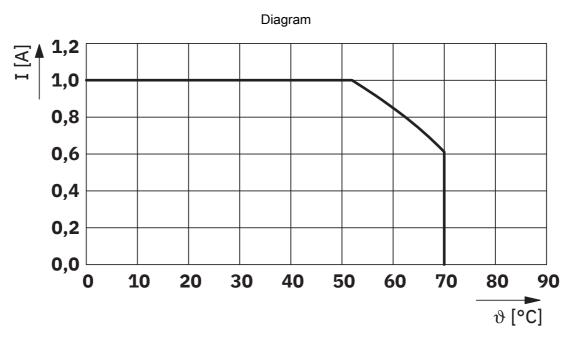| Notes on operation	For proper use, the specifications of the installation directive (see Downloads) must be observed. For applications or use with third-party products, the specifications, and the safety and warning instructions of the respective third-party manufacturer must also be met.

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/gb/products/2304908

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 mm^2
	125 V	1 A	-	-

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Classifications

ECLASS

ECLASS-13.0	27242220

ETIM

ETIM 9.0	EC000237

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%