FLK 16/24/DV-AI/EZ-DR/300 - Cable

2304322

https://www.phoenixcontact.com/us/products/2304322

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Round cable set; controller: Emerson Delta V; connection 1: IDC/FLK socket strip (1x 24-position); connection 2: IDC/FLK socket strip (1x 16-position); cable length: 3 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 analog modules with 24-pos. MTB

Commercial data

Item number	2304322
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C421
Product key	DK221K
GTIN	4017918936433
Weight per piece (including packing)	202.3 g
Weight per piece (excluding packing)	185 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) (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)	≤ 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	VE4003S2B5

Cable/line

Cable length	3 m

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
Conductor cross section	16x 0.14 mm²
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/FLK24 (3)
brown	IDC/FLK16 (2) = IDC/FLK24 (1)
red	IDC/FLK16 (3) = IDC/FLK24 (3)
orange	IDC/FLK16 (4) = IDC/FLK24 (5)
yellow	IDC/FLK16 (5) = IDC/FLK24 (9)
green	IDC/FLK16 (6) = IDC/FLK24 (7)
blue	IDC/FLK16 (7) = IDC/FLK24 (9)
violet	IDC/FLK16 (8) = IDC/FLK24 (11)
gray	IDC/FLK16 (9) = IDC/FLK24 (15)
white	IDC/FLK16 (10) = IDC/FLK24 (13)
white-black	IDC/FLK16 (11) = IDC/FLK24 (15)
white-brown	IDC/FLK16 (12) = IDC/FLK24 (17)
white-red	IDC/FLK16 (13) = IDC/FLK24 (21)
white-orange	IDC/FLK16 (14) = IDC/FLK24 (19)
white-yellow	IDC/FLK16 (15) = IDC/FLK24 (21)
white-green	IDC/FLK16 (16) = IDC/FLK24 (23)

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	24
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

Connection 2

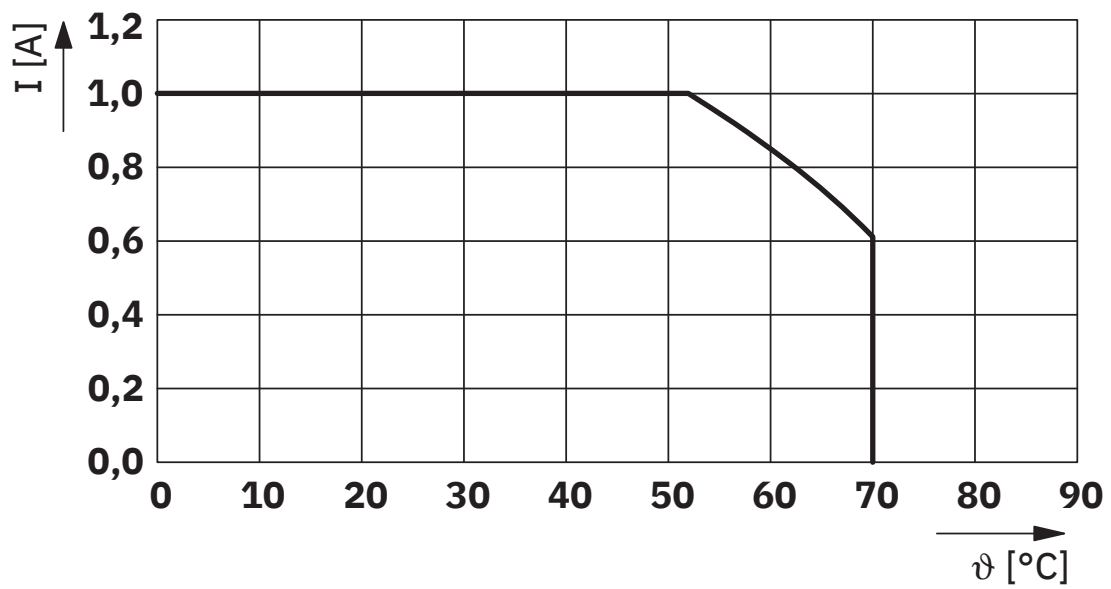| Connection in acc. with standard	IEC 60603-13 (in compliance)
Connection method	IDC/FLK socket strip
Number of connections	1
Number of positions	16
Insertion/withdrawal cycles	> 50

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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

Classifications

ECLASS

ECLASS-13.0	27242220

ETIM

ETIM 9.0	EC000237

UNSPSC

UNSPSC 21.0	26121600

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%