

FLK 20/2FLK14/EZ-DR/200/KONFEK - Cable



2298438

<https://www.phoenixcontact.com/us/products/2298438>

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Round cable set; connection 1: IDC/FLK socket strip (1x 20-position); connection 2: IDC/FLK socket strip (2x 14-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
- The 16 digital signals are split into 2x 8 signals on the field side
- IDC/FLK connector: 20-pos. to two 14-pos. (in accordance with IEC 60603-13)
- Suitable for connecting 16-channel digital cards, e.g., SIMATIC[®] ET 200SP
- For digital modules with 40-pos. MTB for connection to PLC-INTERFACE

Commercial data

Item number	2298438
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C421
Product key	CK2131
Catalog page	Page 476 (C-5-2019)
GTIN	4017918601911
Weight per piece (including packing)	186.1 g
Weight per piece (excluding packing)	168 g
Customs tariff number	85444290
Country of origin	DE

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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Supported controller SIEMENS ET 200SP

Suitable base unit	6ES7193-6BP00-0BA0
	6ES7193-6BP00-2BA0
	6ES7193-6BP00-0BA1
	6ES7193-6BP00-0DA0
	6ES7193-6BP00-2DA0
	6ES7193-6BP00-0DA1
Suitable I/O module	6ES7131-6BH01-0BA0 (Base Units A0/A1)
	6ES7131-6BH01-2BA0 (Base Units A0/A1)
	6ES7132-6BH01-0BA0 (Base Units A0/A1)
	6ES7132-6BH01-2BA0 (Base Units A0/A1)

Cable/line

Cable length	2 m
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20X0.14 [PVC]

UL AWM Style	2464/1061
Number of positions	20
Shielded	no

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Cable type	20X0.14 [PVC]
Conductor type	Round cable set
Conductor structure signal line	7x 0.16 mm
AWG signal line	26
Conductor cross section	20x 0.14 mm ²
Wire diameter incl. insulation	1 mm ±0.03 mm
External cable diameter	7.60 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	64 mm
Smallest bending radius, movable installation	120 mm
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)
IDC/FLK20 (1)	IDC/FLK14-1 (1) = black
IDC/FLK20 (2)	IDC/FLK14-1 (2) = brown
IDC/FLK20 (3)	IDC/FLK14-1 (3) = red
IDC/FLK20 (4)	IDC/FLK14-1 (4) = orange
IDC/FLK20 (5)	IDC/FLK14-1 (5) = yellow
IDC/FLK20 (6)	IDC/FLK14-1 (6) = green
IDC/FLK20 (7)	IDC/FLK14-1 (7) = blue
IDC/FLK20 (8)	IDC/FLK14-1 (8) = violet
IDC/FLK20 (9)	IDC/FLK14-2 (1) = gray
IDC/FLK20 (10)	IDC/FLK14-2 (2) = white
IDC/FLK20 (11)	IDC/FLK14-2 (3) = white-black
IDC/FLK20 (12)	IDC/FLK14-2 (4) = white-brown
IDC/FLK20 (13)	IDC/FLK14-2 (5) = white-red
IDC/FLK20 (14)	IDC/FLK14-2 (6) = white-orange
IDC/FLK20 (15)	IDC/FLK14-2 (7) = white-yellow
IDC/FLK20 (16)	IDC/FLK14-2 (8) = white-green
IDC/FLK20 (17)	IDC/FLK14-2 (9) = white-blue
IDC/FLK20 (18)	IDC/FLK14-2 (10) = white-violet
IDC/FLK20 (19)	IDC/FLK14-1 (9) = white-gray
IDC/FLK20 (20)	IDC/FLK14-1 (10) = brown-black

Connection data

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Connection 1

Connection in acc. with standard	based on IEC 60603-13
Connection method	IDC/FLK socket strip
Number of connections	1
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	2
Number of positions	14
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

Notes

General	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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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

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

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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com