FLK 20/2FLK14/EZ-DR/100/KONFEK - Cable

2298470

https://www.phoenixcontact.com/us/products/2298470

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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: 1 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	2298470
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C421
Product key	DK2215
GTIN	4017918601782
Weight per piece (including packing)	100 g
Weight per piece (excluding packing)	97.4 g
Customs tariff number	85444290
Country of origin	DE

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	VE4001S2T2B5
	VE4002S1T2B6

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	1 m

20X0.14 [PVC]

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

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 mm²
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
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	Splitting cable for two modules

Color code: Single-core wire

black	IDC/FLK20 (1) = IDC/FLK14-1 (1)
brown	IDC/FLK20 (2) = IDC/FLK14-1 (2)
red	IDC/FLK20 (3) = IDC/FLK14-1 (3)
orange	IDC/FLK20 (4) = IDC/FLK14-1 (4)
yellow	IDC/FLK20 (5) = IDC/FLK14-1 (5)
green	IDC/FLK20 (6) = IDC/FLK14-1 (6)
blue	IDC/FLK20 (7) = IDC/FLK14-1 (7)
violet	IDC/FLK20 (8) = IDC/FLK14-1 (8)
gray	IDC/FLK20 (9) = IDC/FLK14-2 (1)
white	IDC/FLK20 (10) = IDC/FLK14-2 (2)
white-black	IDC/FLK20 (11) = IDC/FLK14-2 (3)
white-brown	IDC/FLK20 (12) = IDC/FLK14-2 (4)
white-red	IDC/FLK20 (13) = IDC/FLK14-2 (5)
white-orange	IDC/FLK20 (14) = IDC/FLK14-2 (6)
white-yellow	IDC/FLK20 (15) = IDC/FLK14-2 (7)
white-green	IDC/FLK20 (16) = IDC/FLK14-2 (8)
white-blue	IDC/FLK20 (17) = IDC/FLK14-2 (9)
white-violet	IDC/FLK20 (18) = IDC/FLK14-2 (10)

white-gray	IDC/FLK20 (19) = IDC/FLK14-1 (9)
brown-black	IDC/FLK20 (20) = IDC/FLK14-1 (10)

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	20
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

Connection 2

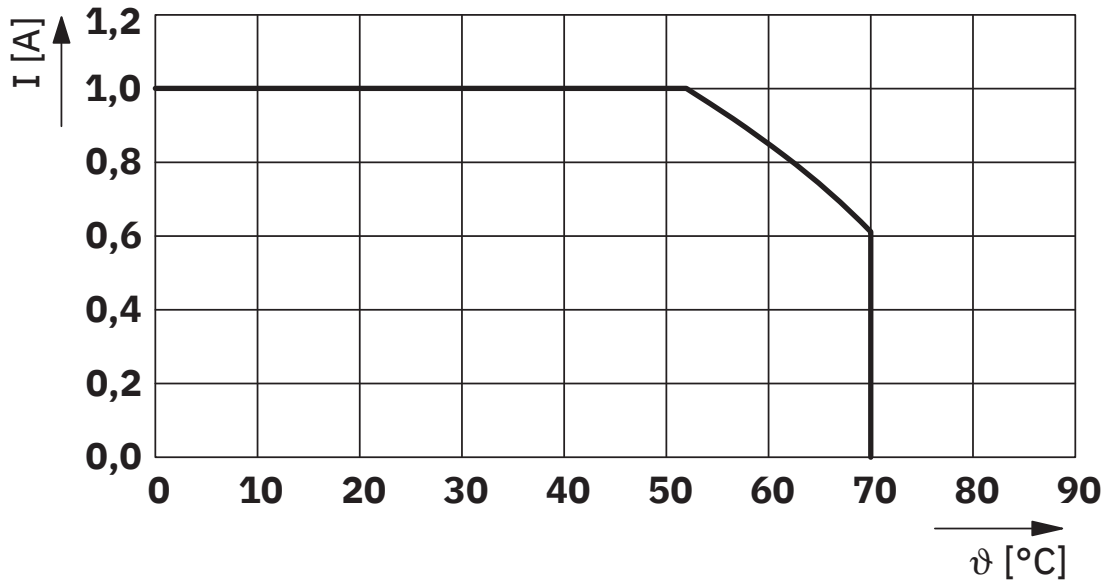
Connection in acc. with standard	IEC 60603-13 (in compliance)
Connection method	IDC/FLK socket strip
Number of connections	2
Number of positions	14
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

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

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2298470

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
keine				
	125 V	1 A	-	-

cUL Listed
Approval ID: E238705

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	125 V	1 A	-	-

Classifications

ECLASS

ECLASS-13.0	27242220
ECLASS-15.0	27242220

ETIM

ETIM 10.0	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%

EF3.1 Climate Change

CO2e kg	2.348 kg CO2e

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