

# FLKMIL-50/4FLK14/EZ-DR/3000/CS - Cable



2900159

<https://www.phoenixcontact.com/us/products/2900159>

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Assembled shielded round cable; controller: Yokogawa CS3000 CentumVP (ADV561, ADV161); connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (4x 14-position); cable length: 30 m

## Commercial data

Item number	2900159
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	DK221N
GTIN	4046356481878
Weight per piece (including packing)	4,415 g
Weight per piece (excluding packing)	4,415 g
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) (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 (DC)	≤ 30 V DC
Nominal operating mode	100% operating factor
Current (Per path)	≤ 500 mA (uncoiled)

#### Supported controller: YOKOGAWA CS3000 CentumVP

Suitable I/O card	ADV161
	ADV561

#### Supported controller: YOKOGAWA STARDOM

Suitable I/O card	NFDV161
	NFDV561

### Cable/line

Cable length	30 m
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#### 40X0.14 [PVC]

UL AWM Style	2464/1061
Number of positions	40
Shielded	yes
Cable type	40X0.14 [PVC]
Conductor type	Assembled shielded round cable
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	9.80 mm ±0.3 mm
Outer sheath, material	Semi-rigid PVC
External sheath, color	gray
Conductor material	Tin-plated Cu litz wires

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Cable resistance	≤ 145 Ω/km (at 20 °C)
Insulation resistance	≥ 20 MΩ*km (20 °C)
Smallest bending radius, fixed installation	101 mm
Smallest bending radius, movable installation	182 mm
Dynamic load capacity (bending)	Max. bending cycles: 5000 (at a radius of ≥ 18x 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)

## 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	50
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	4
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.
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## Drawings

Connection diagram

50-pos. connector to the I/O card		4 x 14-pos. connector to the module	Wire color
1	Byte 0	1	black
3		2	brown
5		3	red
7		4	orange
9		5	yellow
11		6	green
13		7	blue
15		8	Violet
41		9	gray
39		10	White
17	Byte 1	1	white-black
19		2	white-brown
21		3	white-red
23		4	white-orange
25		5	White-yellow
27		6	white-green
29		7	white-blue
31		8	white-violet
43		9	white-gray
37		10	brown-black
2	Byte 2	1	brown-red
4		2	brown-orange
6		3	brown-yellow
8		4	brown-green
10		5	brown-blue
12		6	brown-violet
14		7	brown-gray
16		8	brown-white
42		9	green-black
36		10	green-brown
18	Byte 3	1	green-red
20		2	green-orange
22		3	green-blue
24		4	green-violet
26		5	green-gray
28		6	green-white
30		7	yellow-black
32		8	yellow-brown
44		9	yellow-red
34		10	yellow-orange

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2900159>



**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 $\text{mm}^2$
keine				
	125 V	0.5 A	-	-



**cUL Listed**

Approval ID: E238705

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
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	125 V	0.5 A	-	-

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## Classifications

### ECLASS

ECLASS-13.0	27242220
ECLASS-15.0	27242220

### ETIM

ETIM 10.0	EC000237
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### UNSPSC

UNSPSC 21.0	26121600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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%
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