

# FLK 50-PA/EZ-DR/HF/KS/3500/YUC - Front adapter



2904641

<https://www.phoenixcontact.com/us/products/2904641>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Cast front adapter with attached, halogen-free round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 35.0 m

## Your advantages

- Molded connectors
- KS/AKB-compatible connectors on the module side
- Can be screwed on
- Lateral cable outlet of the I/O module

## Commercial data

Item number	2904641
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C421
Product key	DK222N
GTIN	4046356868334
Weight per piece (including packing)	7,045 g
Weight per piece (excluding packing)	6,777 g
Customs tariff number	85444290
Country of origin	DE

# FLK 50-PA/EZ-DR/HF/KS/3500/YUC - Front adapter



2904641

<https://www.phoenixcontact.com/us/products/2904641>

## Technical data

### Product properties

Product type	Front adapter
--------------	---------------

### 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	ADV151
	ADV551

Supported controller: YOKOGAWA STARDOM

Suitable I/O card	NFDV151
	NFDV551

Supported controller: YOKOGAWA ProSafe-RS

Suitable I/O card	SDV541
	SDV144
	SDV521

### Connection data

#### Connection 1

Connection in acc. with standard	IEC 60603-13 (in compliance)
Connection method	Yokogawa, I/O cards compatible
Number of connections	1
Number of positions	50
Tightening torque	0.5 Nm (Screw connection)
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

#### Connection 2

Connection in acc. with standard	IEC 60603-13 (in compliance)
Connection method	Yokogawa, KS compatible
Number of connections	1
Number of positions	50
Tightening torque	0.5 Nm (Screw connection)
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

### Dimensions

Cable

# FLK 50-PA/EZ-DR/HF/KS/3500/YUC - Front adapter



2904641

<https://www.phoenixcontact.com/us/products/2904641>

Length	35 m
--------	------

## Cable/line

UL AWM Style	21946
Number of positions	50
Shielded	yes
Conductor type	Assembled, shielded, halogen-free round cable
Conductor structure signal line	7x 0.16 mm
AWG signal line	26
Conductor cross-section	50x 0.14 mm <sup>2</sup>
Wire diameter incl. insulation	1 mm ±0.03 mm
External cable diameter	11.00 mm ±0.4 mm
External sheath, color	gray
Conductor material	Tin-plated Cu litz wires
Smallest bending radius, fixed installation	114 mm
Smallest bending radius, movable installation	205 mm
Halogen-free	yes
Flame resistance	IEC 60332-1-2 (raw cable) VDE 0842, Part 332-1-2 (raw cable) IEC 60332-3-22 (raw cable)
Resistance to oil	can withstand occasional splashes (raw cable)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
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

## Approvals

### UKCA

Certificate	UKCA-compliant
-------------	----------------

## Mounting

Mounting position	any
-------------------	-----

## 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.
--------------------	--

# FLK 50-PA/EZ-DR/HF/KS/3500/YUC - Front adapter



2904641

<https://www.phoenixcontact.com/us/products/2904641>

## Drawings

### Connection diagram

50-pos. connector to the I/O card	50-pos. connector to the module	Wire color
1	50	black
2	49	brown
3	48	red
4	47	orange
5	46	yellow
6	45	green
7	44	blue
8	43	violet
9	42	gray
10	41	white
11	40	white-black
12	39	white-brown
13	38	white-red
14	37	white-orange
15	36	white-yellow
16	35	white-green
17	34	white-blue
18	33	white-violet
19	32	white-gray
20	31	brown-black
21	30	brown-red
22	29	brown-orange
23	28	brown-yellow
24	27	brown-green
25	26	brown-blue
26	25	brown-violet
27	24	brown-gray
28	23	brown-white
29	22	green-black
30	21	green-brown
31	20	green-red
32	19	green-orange
33	18	green-blue
34	17	green-violet
35	16	green-gray
36	15	green-white
37	14	yellow-black
38	13	yellow-brown
39	12	yellow-red
40	11	yellow-orange
41	10	yellow-blue
42	9	yellow-violet
43	8	yellow-gray
44	7	yellow-white
45	6	gray-black
46	5	gray-brown
47	4	gray-red
48	3	gray-orange
49	2	gray-yellow
50	1	gray-green

# FLK 50-PA/EZ-DR/HF/KS/3500/YUC - Front adapter



2904641

<https://www.phoenixcontact.com/us/products/2904641>

## Classifications

### ECLASS

ECLASS-13.0

27242292

### ETIM

ETIM 9.0

EC002584

### UNSPSC

UNSPSC 21.0

32151600

# FLK 50-PA/EZ-DR/HF/KS/3500/YUC - Front adapter



2904641

<https://www.phoenixcontact.com/us/products/2904641>

## 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%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

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