

# Front adapters - FLK 50-PA/EZ-DR/KS/5000/YUC



2318981

<https://www.phoenixcontact.com/de/produkte/2318981>

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Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 50.0 m

## Commercial Data

Item number	2318981
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to Order (non-returnable)
Sales Key	I1 - Systemverkabelung
Product Key	CK2154
GTIN	4046356327312
Weight per Piece (including packing)	10 kg
Weight per Piece (excluding packing)	9,612 kg
Customs tariff number	85444290
Country of origin	DE

## Technical Data

### Notes

Notes on operation	No additional touch protection is required when using a SELV/PELV voltage ( $\leq 25$ V AC or 60 V DC).
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### Product properties

Product type	Front adapter
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#### Insulation characteristics

Overvoltage category	II
Pollution degree	2
Insulation	Functional insulation

### Electrical properties

Max. permissible operating voltage	30 V DC
Max. permissible current	500 mA (per path)
Nominal operating mode	100% operating factor
Rated insulation voltage	63 V
Rated surge voltage	0.6 kV

#### Supported controller YOKOGAWA CS3000 CentumVP

Suitable I/O card	ADV151
	ADV551

#### Supported controller YOKOGAWA STARDOM

Suitable I/O card	NFDV151
	NFDV551

### Connection data

#### Control side

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

#### Module side

Connection method	Yokogawa, KS compatible
Number of connections	1
Number of positions	50
Tightening torque	0.5 Nm (Screw connection)
Insertion/withdrawal cycles	> 50

### Dimensions

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Length	50 m
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## Cable / line

Cable length	50 m
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### 50X0.14 [PVC]

UL AWM Style	2464/1061
Number of positions	50
Shielded	yes
Cable type	50X0.14 [PVC]
Conductor type	Assembled shielded 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 mm ±0.3 mm
Outer sheath, material	Semi-rigid PVC
External sheath, color	gray
Conductor material	Tin-plated Cu litz wires
Cable resistance	≤ 145 Ω/km (at 20 °C)
Insulation resistance	≥ 20 MΩ*km (20 °C)
Smallest bending radius, fixed installation	114 mm
Smallest bending radius, movable installation	205 mm
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)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
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

## Approval data

### UKCA

Certificate	UKCA-compliant
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## Standards and regulations

Air clearances and creepage distances

Standards/regulations	DIN EN 50178
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## Mounting

Mounting position	any
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## 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

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## Approvals



### EAC

Approval ID: RU\*-DE.HB\*35.B00385



### UL Listed

Approval ID: FILE E 238705

	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $\text{mm}^2$
	125 V	0.5 A	-	-



### cUL Listed

Approval ID: FILE E 238705

	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $\text{mm}^2$
	125 V	0.5 A	-	-

### cULus Listed

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## Classifications

### ECLASS

ECLASS-9.0	27242292
ECLASS-10.0.1	27242292
ECLASS-11.0	27242292

### ETIM

ETIM 8.0	EC002584
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### UNSPSC

UNSPSC 21.0	32151600
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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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## Accessories

### Screw set

Screw set - VF-SCREW-YOKOGAWA/M3X18/DCS - 2902873

<https://www.phoenixcontact.com/de/produkte/2902873>



Replacement screw M3x18 for Yokogawa system cable, front adapter control side.

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### Screw set

Screw set - VF-SCREW-YOKOGAWA/M4X25/KS - 2902874

<https://www.phoenixcontact.com/de/produkte/2902874>



Replacement screw M4x25 for Yokogawa system cable, module side.

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