

# Cable - FLK-MIL50/EZ-DR/KS/3500/YCS - 2901019

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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 (1x 50-position); cable length: 35 m



## Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4046356560894

## Technical data

### Note

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

### Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °C (fixed installation)
	-10 °C ... 70 °C (flexible installation)
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Maximum altitude	$\leq 2000$ m
Degree of protection	IP00
	$\geq$ IP54 (Installation location)

### General

Max. permissible operating voltage	30 V DC
Max. current carrying capacity per path	500 mA (uncoiled)
Length of cable	35 m
External cable diameter	9.8 mm $\pm$ 0.4 mm (40-pos.)
	11 mm $\pm$ 0.4 mm (50-pos.)
Single wire, cross section	0.14 mm <sup>2</sup>

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## Technical data

### General

Single wire, cross section [AWG]	26
Single wire, number of litz wires	7
Single wire, material	Cu tin-plated
Wire diameter incl. insulation	1 mm ±0.03 mm
Smallest bending radius, fixed installation	102 mm (40-pos.)
	114 mm (50-pos.)
Smallest bending radius, movable installation	184 mm (40-pos.)
	205 mm (50-pos.)
Bending cycles	> 5000
Shielding	yes
Cable insulation resistance	≥ 20 MΩ/km (at 20 °C)
Cable impedance	approx. 120 Ω
Cable resistance	≤ 145 Ω/km (at 20 °C)
Cable capacity	approx. 130 pF/m
Outer sheath, material	Semi-rigid PVC
External sheath, color	gray RAL 7035
Nominal operating mode	100% operating factor

### Connection data

Connection name	Field level
Connection method	IDC/FLK socket strip
Number of connections	1
Number of positions	50
Torque	0.5 Nm (Screw connection)
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

### Connection data 2

Connection name	Controller level
Connection method	IDC/FLK socket strip
Number of connections	1
Number of positions	50
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

### Connection data 3

Connection name	Fixing to IO cards
Connection method	Screw connection
Torque	0.5 Nm

### Standards and Regulations

Flame resistance	UL VW-1
	CSA FT-1

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## Technical data

### Standards and Regulations

	IEC 60332-1-2
	VDE 0842, Part 332-1-2
	IEC 60332-3-22
Resistance to oil	against occasional splashes
Gasoline resistance	against occasional splashes
Designation	Air clearances and creepage distances
Standards/regulations	DIN EN 50178
Rated insulation voltage	63 V
Rated surge voltage	0.6 kV
Insulation	Functional insulation
Pollution degree	2
Overvoltage category	II

### Supported controller

Controller	YOKOGAWA CS3000 CentumVP
- suitable I/O card	ADV161
	ADV561
Controller	YOKOGAWA STARDOM
- suitable I/O card	NFDV161
	NFDV561

### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Classifications

### eCl@ss

eCl@ss 10.0.1	27242220
eCl@ss 4.0	27060300
eCl@ss 4.1	27060300
eCl@ss 5.0	27242200
eCl@ss 5.1	27242200
eCl@ss 6.0	27249200
eCl@ss 7.0	27249205
eCl@ss 8.0	27249205
eCl@ss 9.0	27242220

### ETIM

ETIM 2.0	EC000237
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## Classifications

### ETIM

ETIM 3.0	EC000237
ETIM 4.0	EC000237
ETIM 5.0	EC000237
ETIM 6.0	EC000237
ETIM 7.0	EC000237

### UNSPSC

UNSPSC 6.01	26121620
UNSPSC 7.0901	26121620
UNSPSC 11	26121620
UNSPSC 12.01	26121620
UNSPSC 13.2	26121620
UNSPSC 18.0	26121620
UNSPSC 19.0	26121620
UNSPSC 20.0	26121620
UNSPSC 21.0	26121620

## Approvals


### Approvals


#### Approvals

UL Listed / cUL Listed / EAC / cULus Listed

#### Ex Approvals

### Approval details

UL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 238705
Nominal voltage UN	125 V		
Nominal current IN	0.5 A		


cUL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 238705
Nominal voltage UN	125 V		

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### Approvals

Nominal current I <sub>N</sub>	0.5 A
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EAC		RU*- DE.HB*35.B00385
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cULus Listed	
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