

# Cable - FLK 50/EZ-DR/ 800/KONFEK - 2289641


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Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 8 m



## Key Commercial Data

Packing unit	1 pc
GTIN	 4 017918 057701
GTIN	4017918057701

## Technical data

### 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	≤ 2000 m
Degree of protection	IP00
	≥ IP54 (Installation location)

### General

Max. permissible operating voltage	25 V AC
	60 V DC
Max. current carrying capacity per path	1 A (50 °C)
	0.6 A (70 °C)
Length of cable	8 m
External cable diameter	10.3 mm ±0.4 mm
Single wire, cross section	0.14 mm <sup>2</sup>
Single wire, cross section [AWG]	26
Single wire, number of litz wires	7
Single wire, material	Cu tin-plated

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## Technical data

### General

Wire diameter incl. insulation	1 mm ±0.03 mm
Smallest bending radius, fixed installation	86 mm
Smallest bending radius, movable installation	161 mm
Bending cycles	5000 (at a radius of ≥ 15x outside diameter)
Cable, preassembly	Insulation displacement, IEC 60352-4/DIN EN 60352-4
Shielding	no
Cable insulation resistance	≥ 20 MΩ/km (20 °C)
Cable resistance	≤ 145 Ω/km (20 °C)
Outer sheath, material	Semi-rigid PVC
External sheath, color	gray
Nominal operating mode	100% operating factor

### Connection data

Connection name	Field level
Connection in acc. with standard	IEC 60603-13
Connection method	IDC/FLK socket strip
Number of connections	1
Number of positions	50
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

### Connection data 2

Connection name	Controller level
Connection in acc. with standard	IEC 60603-13
Connection method	IDC/FLK socket strip
Number of connections	1
Number of positions	50
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

### Standards and Regulations

Flame resistance	UL VW-1
	CSA FT-1
	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
Connection in acc. with standard	CUL
Designation	Air clearances and creepage distances
Standards/regulations	DIN EN 50178
Rated insulation voltage	63 V

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## Technical data

### Standards and Regulations

Rated surge voltage	0.6 kV
Insulation	Functional insulation
Pollution degree	2
Overvoltage category	II

### Supported controller

Controller	SIEMENS S7-1500
- suitable I/O card	6ES7 521-1BL00-0AB0
	6ES7 522-1BL00-0AB0
	6ES7 522-1BL01-0AB0
	6ES7 531-7KF00-0AB0
	6ES7 531-7NF00-0AB0
	6ES7 531-7NF10-0AB0
	6ES7 531-7PF00-0AB0
	6ES7 532-5HF00-0AB0
Controller	SIEMENS S7-300 / ET 200 M
- suitable I/O card	CPU 313C
	CPU 313C-2DP
	CPU 313C-2PtP
	CPU 314C-2DP
	CPU 314C-2PtP
	6ES7 321-1BL00-0AA0
	6ES7 322-1BL00-0AA0
	6ES7 322-8BH01-0AB0
	6ES7 323-1BL00-0AA0
	6ES7 331-1KF01-0AB0
	6ES7 331-7NF00-0AB0
	6ES7 331-7NF10-0AB0
	6ES7 331-7PF01-0AB0
	6ES7 331-7PF11-0AB0
	6ES7 332-5HF00-0AB0
	6ES7 350-2AH01-0AE0
	6ES7 357-4AH01-0AE0
Controller	SIEMENS S7-400
- suitable I/O card	6ES7 421-1BL01-0AA0
	6ES7 421-7BH01-0AB0
	6ES7 421-7DH00-0AA0
	6ES7 422-1BL00-0AA0
	6ES7 422-7BL00-0AB0
	6ES7 431-0HH0-0AB0
	6ES7 431-1KF00-0AB0

## Cable - FLK 50/EZ-DR/ 800/KONFEK - 2289641

### Technical data

#### Supported controller

	6ES7 431-1KF10-0AB0
	6ES7 431-1KF20-0AB0
	6ES7 431-7KF00-0AB0
	6ES7 431-7KF10-0AB0
	6ES7 431-7QH00-0AB0
	6ES7 432-1HF00-0AB0
Controller	Schneider Electric Modicon TSX QUANTUM
- suitable I/O card	DDI 353
	DDI 841
	DDI 853
	DAI 340
	DAI 440
	DAI 453
	DDO 353
	DDM 390
	ACI 030
	ACI 040
	ATI 030
	ARI 030
	AVI 030
	ACO 020
	ACO 130
	AVO 020
	EHC 105
	EHC 202
Controller	ALLEN-BRADLEY ControlLogix
- suitable I/O card	1756-IA16I
	1756-IB16D
	1756-IB16I
	1756-IB32
	1756-IH16I
	1756-OB32
	1756-IF8
	1756-IF16
	1756-HSC
	1756-M02AE
Controller	ALLEN-BRADLEY PLC 5
- suitable I/O card	1771 IBN
	1771 OBN
Controller	HONEYWELL Experion PKS C200

# Cable - FLK 50/EZ-DR/ 800/KONFEK - 2289641

## Technical data

### Supported controller

- suitable I/O card	TC-IDK 161
	TC-IDX 161
	TC-IDJ 161
	TC-IDD 321
	TC-ODD 321
	TC-IAH 161

### Color code

Connector 1 = connector 2 (optional) = wire color	IDC/FLK50 (1) = IDC/FLK50 (1) = black
	IDC/FLK50 (2) = IDC/FLK50 (2) = brown
	IDC/FLK50 (3) = IDC/FLK50 (3) = red
	IDC/FLK50 (4) = IDC/FLK50 (4) = orange
	IDC/FLK50 (5) = IDC/FLK50 (5) = yellow
	IDC/FLK50 (6) = IDC/FLK50 (6) = green
	IDC/FLK50 (7) = IDC/FLK50 (7) = blue
	IDC/FLK50 (8) = IDC/FLK50 (8) = violet
	IDC/FLK50 (9) = IDC/FLK50 (9) = gray
	IDC/FLK50 (10) = IDC/FLK50 (10) = white
	IDC/FLK50 (11) = IDC/FLK50 (11) = white-black
	IDC/FLK50 (12) = IDC/FLK50 (12) = white-brown
	IDC/FLK50 (13) = IDC/FLK50 (13) = white-red
	IDC/FLK50 (14) = IDC/FLK50 (14) = white-orange
	IDC/FLK50 (15) = IDC/FLK50 (15) = white-yellow
	IDC/FLK50 (16) = IDC/FLK50 (16) = white-green
	IDC/FLK50 (17) = IDC/FLK50 (17) = white-blue
	IDC/FLK50 (18) = IDC/FLK50 (18) = white-violet
	IDC/FLK50 (19) = IDC/FLK50 (19) = white-gray
	IDC/FLK50 (20) = IDC/FLK50 (20) = brown-black
	IDC/FLK50 (21) = IDC/FLK50 (21) = brown-red
	IDC/FLK50 (22) = IDC/FLK50 (22) = brown-orange
	IDC/FLK50 (23) = IDC/FLK50 (23) = brown-yellow
	IDC/FLK50 (24) = IDC/FLK50 (24) = brown-green
	IDC/FLK50 (25) = IDC/FLK50 (25) = brown-blue
	IDC/FLK50 (26) = IDC/FLK50 (26) = brown-violet
	IDC/FLK50 (27) = IDC/FLK50 (27) = brown-gray
	IDC/FLK50 (28) = IDC/FLK50 (28) = brown-white
	IDC/FLK50 (29) = IDC/FLK50 (29) = green-black
	IDC/FLK50 (30) = IDC/FLK50 (30) = green-brown
	IDC/FLK50 (31) = IDC/FLK50 (31) = green-red
	IDC/FLK50 (32) = IDC/FLK50 (32) = green-orange
	IDC/FLK50 (33) = IDC/FLK50 (33) = green-blue

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### Technical data

#### Color code

	IDC/FLK50 (34) = IDC/FLK50 (34) = green-violet
	IDC/FLK50 (35) = IDC/FLK50 (35) = green-gray
	IDC/FLK50 (36) = IDC/FLK50 (36) = green-white
	IDC/FLK50 (37) = IDC/FLK50 (37) = yellow-black
	IDC/FLK50 (38) = IDC/FLK50 (38) = yellow-brown
	IDC/FLK50 (39) = IDC/FLK50 (39) = yellow-red
	IDC/FLK50 (40) = IDC/FLK50 (40) = yellow-orange
	IDC/FLK50 (41) = IDC/FLK50 (41) = yellow-blue
	IDC/FLK50 (42) = IDC/FLK50 (42) = yellow-violet
	IDC/FLK50 (43) = IDC/FLK50 (43) = yellow-gray
	IDC/FLK50 (44) = IDC/FLK50 (44) = yellow-white
	IDC/FLK50 (45) = IDC/FLK50 (45) = gray-black
	IDC/FLK50 (46) = IDC/FLK50 (46) = gray-brown
	IDC/FLK50 (47) = IDC/FLK50 (47) = gray-red
	IDC/FLK50 (48) = IDC/FLK50 (48) = gray-orange
	IDC/FLK50 (49) = IDC/FLK50 (49) = gray-yellow
	IDC/FLK50 (50) = IDC/FLK50 (50) = gray-green

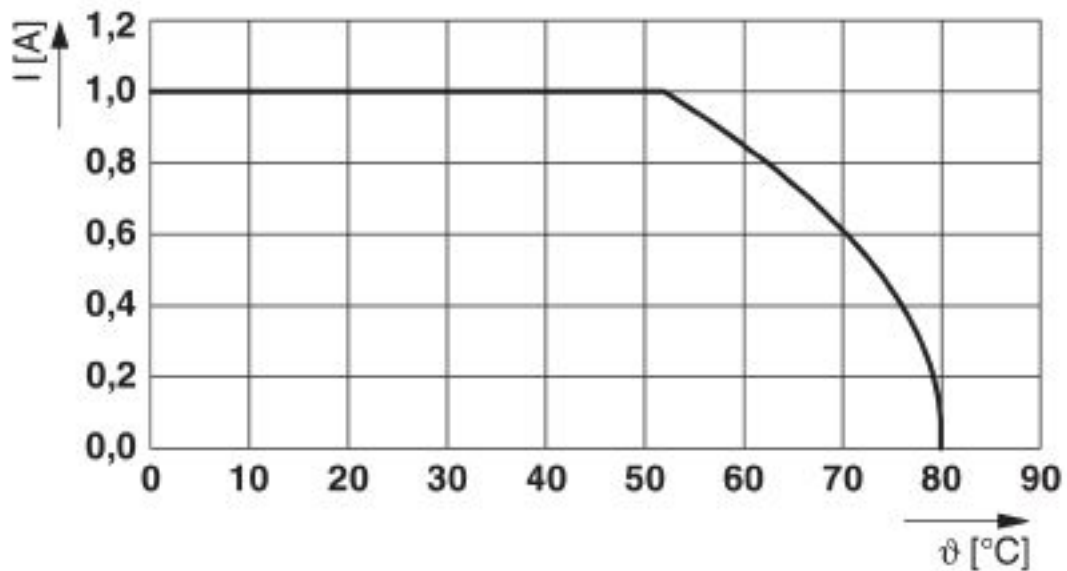
#### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

### Drawings

## Cable - FLK 50/EZ-DR/ 800/KONFEK - 2289641

Diagram



Maximum permissible current per path in uncoiled state

### 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
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

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## Classifications

### UNSPSC

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		1 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	
Nominal current IN		1 A	

EAC		RU* DE.HB*35.B00385
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cULus Listed	
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## Cable - FLK 50/EZ-DR/ 800/KONFEK - 2289641

### Accessories

#### Accessories

#### Marker carrier cable

Cable marker carrier - KME - 0807083



Cable marker carrier, white, unlabeled, mounting type: Assembly with cable binders, cable diameter: > 5 mm, lettering field size: 20 mm x 8 mm

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