

## Cable - FLK 50/EZ-DR/D37SUB/300/X81-I - 2302670


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Round cable set; controller: Mitsubishi Electric MELSEC Q (X81); connection 1: D-SUB socket strip (1x 37-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 3 m

RoHS

### Key Commercial Data

Packing unit	1 pc
GTIN	 4 017918 910280
GTIN	4017918910280

### 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	3 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)
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 60807-2
	DIN 41652
Connection method	D-SUB socket strip
Screw thread	M2,5
Number of connections	1
Number of positions	37
Torque	0.2 Nm
Insertion/withdrawal cycles	> 200

### 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

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## Technical data

### Standards and Regulations

Rated insulation voltage	63 V
Rated surge voltage	0.6 kV
Insulation	Functional insulation
Pollution degree	2
Overvoltage category	II

### Supported controller

Controller	MITSUBISHI MELSEC Q
- suitable I/O card	QX81

### Color code

Connector 1 = connector 2 (optional) = wire color	D-SUB37 (1) = IDC/FLK50 (3) = black
	D-SUB37 (20) = IDC/FLK50 (4) = brown
	D-SUB37 (2) = IDC/FLK50 (5) = red
	D-SUB37 (21) = IDC/FLK50 (6) = orange
	D-SUB37 (3) = IDC/FLK50 (7) = yellow
	D-SUB37 (22) = IDC/FLK50 (8) = green
	D-SUB37 (4) = IDC/FLK50 (9) = blue
	D-SUB37 (23) = IDC/FLK50 (10) = violet
	D-SUB37 (17) = IDC/FLK50 (11) = gray
	D-SUB37 (18) = IDC/FLK50 (12) = white
	D-SUB37 (5) = IDC/FLK50 (15) = white-black
	D-SUB37 (24) = IDC/FLK50 (16) = white-brown
	D-SUB37 (6) = IDC/FLK50 (17) = white-red
	D-SUB37 (25) = IDC/FLK50 (18) = white-orange
	D-SUB37 (7) = IDC/FLK50 (19) = white-yellow
	D-SUB37 (26) = IDC/FLK50 (20) = white-green
	D-SUB37 (8) = IDC/FLK50 (21) = white-blue
	D-SUB37 (27) = IDC/FLK50 (22) = white-violet
	D-SUB37 (17) = IDC/FLK50 (23) = white-gray
	D-SUB37 (18) = IDC/FLK50 (24) = brown-black
	D-SUB37 (9) = IDC/FLK50 (27) = brown-red
	D-SUB37 (28) = IDC/FLK50 (28) = brown-orange
	D-SUB37 (10) = IDC/FLK50 (29) = brown-yellow
	D-SUB37 (29) = IDC/FLK50 (30) = brown-green
	D-SUB37 (11) = IDC/FLK50 (31) = brown-blue
	D-SUB37 (30) = IDC/FLK50 (32) = brown-violet
	D-SUB37 (12) = IDC/FLK50 (33) = brown-gray
	D-SUB37 (31) = IDC/FLK50 (34) = brown-white
	D-SUB37 (17) = IDC/FLK50 (35) = green-black
	D-SUB37 (18) = IDC/FLK50 (36) = green-brown
	D-SUB37 (13) = IDC/FLK50 (39) = green-red

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## Technical data

### Color code

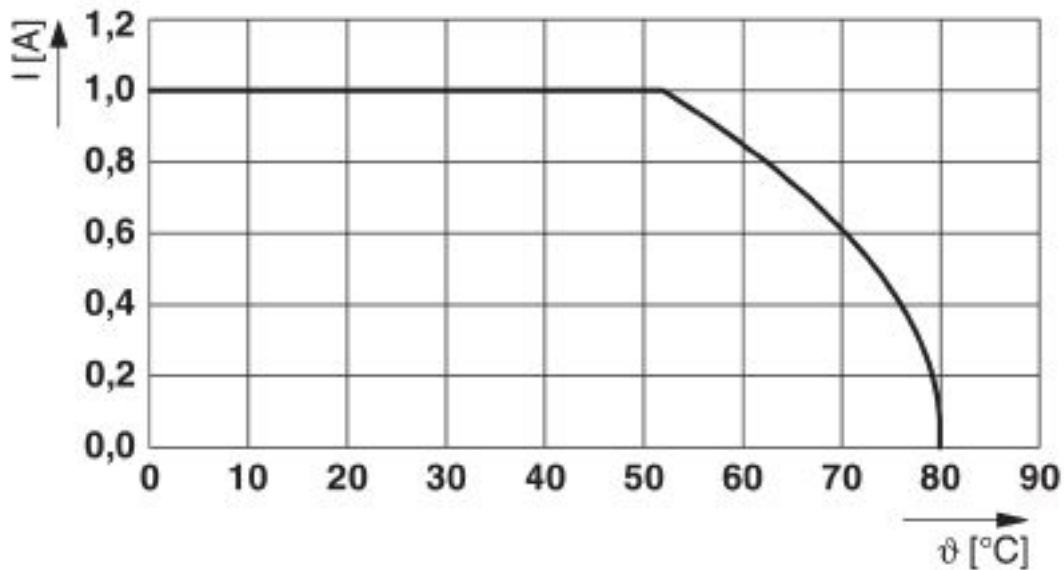
	D-SUB37 (32) = IDC/FLK50 (40) = green-orange
	D-SUB37 (14) = IDC/FLK50 (41) = green-blue
	D-SUB37 (33) = IDC/FLK50 (42) = green-violet
	D-SUB37 (15) = IDC/FLK50 (43) = green-gray
	D-SUB37 (34) = IDC/FLK50 (44) = green-white
	D-SUB37 (16) = IDC/FLK50 (45) = yellow-black
	D-SUB37 (35) = IDC/FLK50 (46) = yellow-brown
	D-SUB37 (36) = IDC/FLK50 (47) = yellow-red
	D-SUB37 (36) = IDC/FLK50 (48) = yellow-orange

### 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"

## Drawings

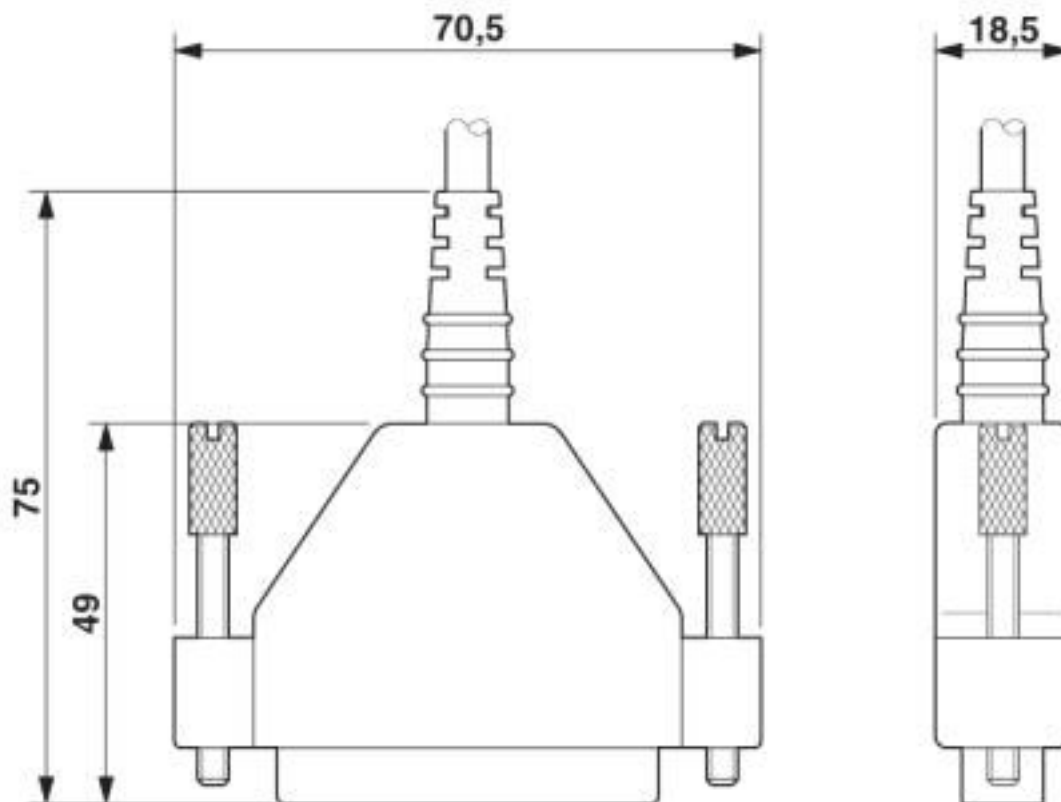
Diagram



Maximum permissible current per path in uncoiled state

# Cable - FLK 50/EZ-DR/D37SUB/300/X81-I - 2302670

Dimensional drawing



## 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

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## Classifications

### 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		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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## Cable - FLK 50/EZ-DR/D37SUB/300/X81-I - 2302670

### Approvals

cULus Listed



### 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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