

Cable - FLK 50/EZ-DR/D37SUB/100/Y81P-O - 2302609

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Round cable set; controller: Mitsubishi Electric MELSEC Q (Y81P); connection 1: D-SUB socket strip (1x 37-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 1 m

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4017918910259

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	1 m
External cable diameter	10.3 mm ±0.4 mm
Single wire, cross section	0.14 mm ²
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 $\pm$ 0.03 mm
Smallest bending radius, fixed installation	86 mm
Smallest bending radius, movable installation	161 mm
Bending cycles	5000 (at a radius of $\geq$ 15x outside diameter)
Shielding	no
Cable insulation resistance	$\geq$ 20 M Ω /km (20 °C)
Cable resistance	$\leq$ 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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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	QY81P

Color code

Connector 1 = connector 2 (optional) = wire color	D-SUB37 (17) = IDC/FLK50 (1) = black
	D-SUB37 (18) = IDC/FLK50 (2) = brown
	D-SUB37 (1) = IDC/FLK50 (3) = red
	D-SUB37 (20) = IDC/FLK50 (4) = orange
	D-SUB37 (2) = IDC/FLK50 (5) = yellow
	D-SUB37 (21) = IDC/FLK50 (6) = green
	D-SUB37 (3) = IDC/FLK50 (7) = blue
	D-SUB37 (22) = IDC/FLK50 (8) = violet
	D-SUB37 (4) = IDC/FLK50 (9) = gray
	D-SUB37 (23) = IDC/FLK50 (10) = white
	D-SUB37 (19) = IDC/FLK50 (11) = white-black
	D-SUB37 (37) = IDC/FLK50 (12) = white-brown
	D-SUB37 (17) = IDC/FLK50 (13) = white-red
	D-SUB37 (18) = IDC/FLK50 (14) = white-orange
	D-SUB37 (5) = IDC/FLK50 (15) = white-yellow
	D-SUB37 (24) = IDC/FLK50 (16) = white-green
	D-SUB37 (6) = IDC/FLK50 (17) = white-blue
	D-SUB37 (25) = IDC/FLK50 (18) = white-violet
	D-SUB37 (7) = IDC/FLK50 (19) = white-gray
	D-SUB37 (26) = IDC/FLK50 (20) = brown-black
	D-SUB37 (8) = IDC/FLK50 (21) = brown-red
	D-SUB37 (27) = IDC/FLK50 (22) = brown-orange
	D-SUB37 (19) = IDC/FLK50 (23) = brown-yellow
	D-SUB37 (37) = IDC/FLK50 (24) = brown-green
	D-SUB37 (17) = IDC/FLK50 (25) = brown-blue
	D-SUB37 (36) = IDC/FLK50 (26) = brown-violet
	D-SUB37 (9) = IDC/FLK50 (27) = brown-gray
	D-SUB37 (28) = IDC/FLK50 (28) = brown-white
	D-SUB37 (10) = IDC/FLK50 (29) = green-black
	D-SUB37 (29) = IDC/FLK50 (30) = green-brown
	D-SUB37 (11) = IDC/FLK50 (31) = green-red

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Technical data

Color code

	D-SUB37 (30) = IDC/FLK50 (32) = green-orange
	D-SUB37 (12) = IDC/FLK50 (33) = green-blue
	D-SUB37 (31) = IDC/FLK50 (34) = green-violet
	D-SUB37 (19) = IDC/FLK50 (35) = green-gray
	D-SUB37 (37) = IDC/FLK50 (36) = green-white
	D-SUB37 (36) = IDC/FLK50 (37) = yellow-black
	D-SUB37 (18) = IDC/FLK50 (38) = yellow-brown
	D-SUB37 (13) = IDC/FLK50 (39) = yellow-red
	D-SUB37 (32) = IDC/FLK50 (40) = yellow-orange
	D-SUB37 (14) = IDC/FLK50 (41) = yellow-blue
	D-SUB37 (33) = IDC/FLK50 (42) = yellow-violet
	D-SUB37 (15) = IDC/FLK50 (43) = yellow-gray
	D-SUB37 (34) = IDC/FLK50 (44) = yellow-white
	D-SUB37 (16) = IDC/FLK50 (45) = gray-black
	D-SUB37 (35) = IDC/FLK50 (46) = gray-brown
	D-SUB37 (19) = IDC/FLK50 (47) = gray-red
	D-SUB37 (37) = IDC/FLK50 (48) = gray-orange

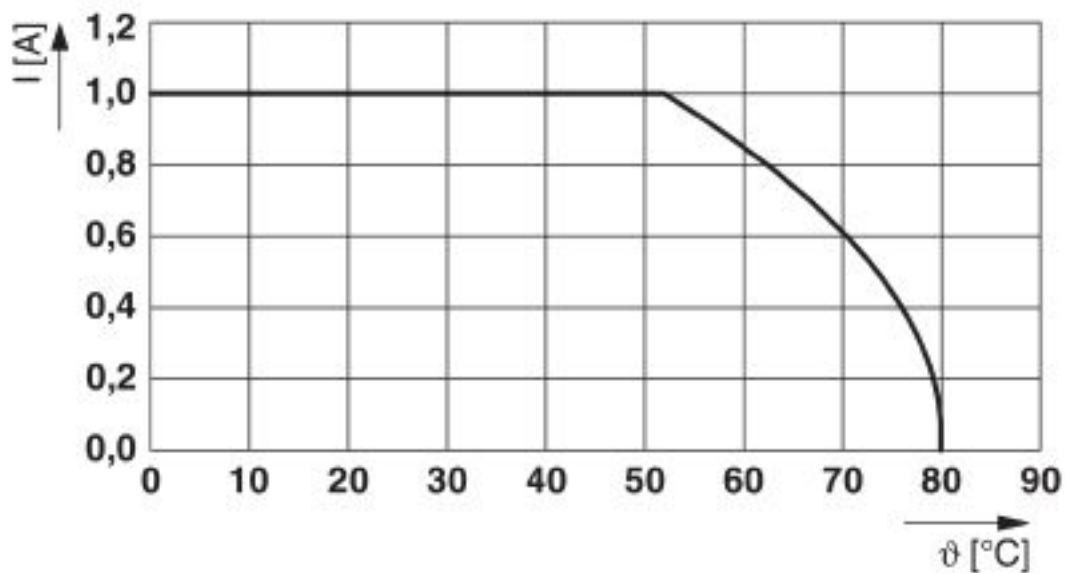
Environmental Product Compliance

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

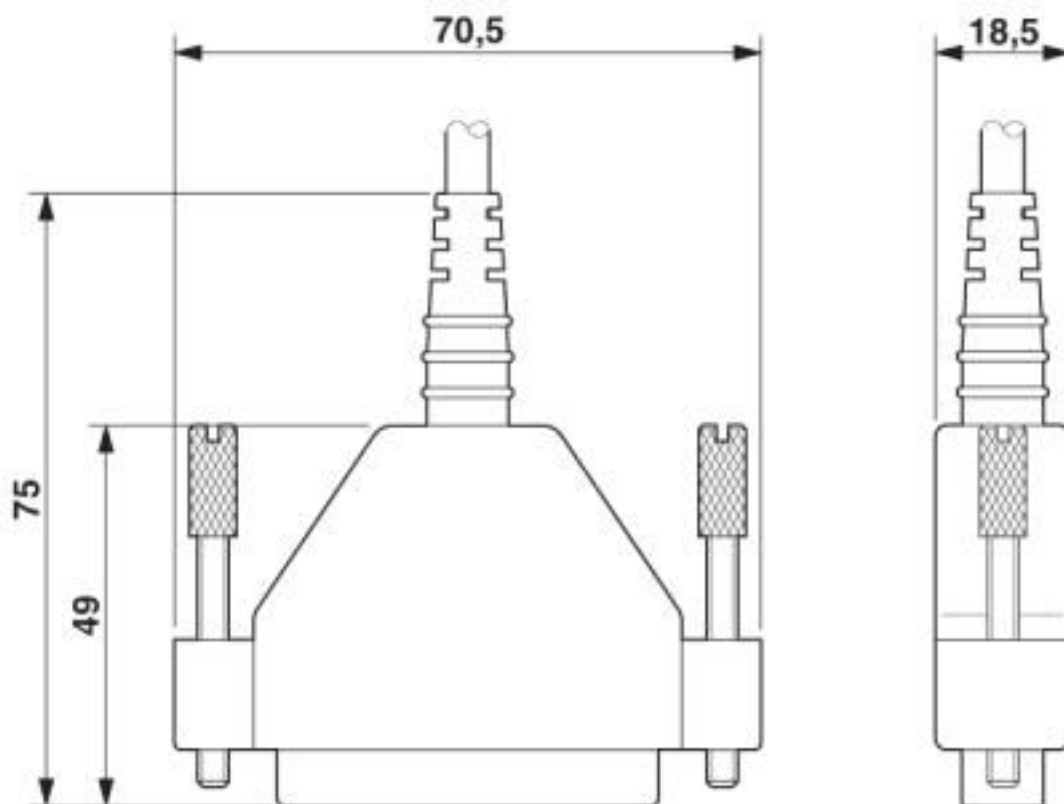
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Diagram



Maximum permissible current per path in uncoiled state

Dimensional drawing



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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
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

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Approvals

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

cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	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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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

Mouser Electronics

Authorized Distributor

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