

FLK 50/EZ-DR/D37SUB/200/Y81P-O - Cable



2302612

<https://www.phoenixcontact.com/us/products/2302612>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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: 2 m

Commercial data

Item number	2302612
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C421
Product key	DK226M
GTIN	4017918910266
Weight per piece (including packing)	457 g
Weight per piece (excluding packing)	425.5 g
Customs tariff number	85444290
Country of origin	DE

Technical data

Product properties

Product type	System cable
--------------	--------------

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP00
Degree of protection (Installation location)	≥ IP54 (Installation location)
Ambient temperature (operation) (fixed installation)	-40 °C ... 70 °C (fixed installation)
Ambient temperature (operation) (flexible installation)	-10 °C ... 70 °C (flexible installation)
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	≤ 2000 m

Electrical properties

Operating voltage (AC)	≤ 30 V AC
Operating voltage (DC)	≤ 60 V DC
Nominal operating mode	100% operating factor
Current (Per path, 50°C)	≤ 1 A (Uncoiled, see derating)
Current (Per path, 70°C)	≤ 0.6 A (Uncoiled, see derating)

Supported controller: MITSUBISHI MELSEC Q

Suitable I/O card	QY81P
-------------------	-------

Cable/line

Cable length	2 m
--------------	-----

50X0.14 [PVC]

UL AWM Style	2464/1061
Number of positions	50
Shielded	no
Cable type	50X0.14 [PVC]
Conductor type	Round cable set
Conductor structure signal line	7x 0.16 mm
AWG signal line	26
Conductor cross-section	50x 0.14 mm ²
Wire diameter incl. insulation	1 mm ±0.03 mm
External cable diameter	10.30 mm ±0.4 mm
Outer sheath, material	Semi-rigid PVC
External sheath, color	gray
Conductor material	Tin-plated Cu litz wires
Cable resistance	≤ 145 Ω/km (20 °C)
Insulation resistance	≥ 20 MΩ*km (20 °C)
Smallest bending radius, fixed installation	86 mm

FLK 50/EZ-DR/D37SUB/200/Y81P-O - Cable



2302612

<https://www.phoenixcontact.com/us/products/2302612>

Smallest bending radius, movable installation	161 mm
Dynamic load capacity (bending)	Max. bending cycles: 5000 (at a radius of $\geq 15x$ 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)
Cable type	Cable for one module

Color code: Single-core wire

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

FLK 50/EZ-DR/D37SUB/200/Y81P-O - Cable



2302612

<https://www.phoenixcontact.com/us/products/2302612>

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

Connection data

Connection 1

Connection in acc. with standard	IEC 60807-2
	DIN 41652
Connection method	D-SUB socket strip
Screw thread	UNC 4-40
	M2,5
Number of connections	1
Number of positions	37
Tightening torque	0.2 Nm
Insertion/withdrawal cycles	> 200
Pitch	2.77 mm

Connection 2

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

Notes

Notes on operation	For proper use, the specifications of the installation directive (see Downloads) must be observed. For applications or use with third-party products, the specifications, and the safety and warning instructions of the respective third-party manufacturer must also be met.
--------------------	--

Drawings

Diagram



Maximum permissible current per path in uncoiled state

FLK 50/EZ-DR/D37SUB/200/Y81P-O - Cable



2302612

<https://www.phoenixcontact.com/us/products/2302612>

Classifications

ECLASS

ECLASS-13.0

27242220

ETIM

ETIM 9.0

EC000237

UNSPSC

UNSPSC 21.0

26121600

2302612

<https://www.phoenixcontact.com/us/products/2302612>

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	6935392b-987b-45c4-ac22-23314abe55ed

Phoenix Contact 2026 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com