

CABLE-D37-M2,5-4X14-X81-I/... - Cable

2302706

<https://www.phoenixcontact.com/pc/products/2302706>

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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 (4x 14-position); cable length: variable



Commercial data

Item number	2302706
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	CK2143
Catalog page	Page 482 (C-5-2019)
Customs tariff number	85444290
Country of origin	DE

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Technical data

Product properties

Product type	System cable
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP00
Degree of protection (Installation location)	≥ IP54 (Installation location)
Ambient temperature (operation)	-40 °C ... 70 °C (fixed 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	QX81
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Cable/line

Cable length	variable
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10X0.14 [PVC]

UL AWM Style	2464/1061
Number of positions	10
Shielded	no
Cable type	10X0.14 [PVC]
Conductor type	Round cable set
Conductor structure signal line	7x 0.16 mm
AWG signal line	26
Conductor cross section	10x 0.14 mm ²
Wire diameter incl. insulation	1 mm ±0.03 mm
External cable diameter	6.1 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	52 mm

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Smallest bending radius, movable installation	98 mm
Max. bending cycles	5000
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)

color code

D-SUB37 (1)	IDC/FLK14-1 (1) = black
D-SUB37 (20)	IDC/FLK14-1 (2) = brown
D-SUB37 (2)	IDC/FLK14-1 (3) = red
D-SUB37 (21)	IDC/FLK14-1 (4) = orange
D-SUB37 (3)	IDC/FLK14-1 (5) = yellow
D-SUB37 (22)	IDC/FLK14-1 (6) = green
D-SUB37 (4)	IDC/FLK14-1 (7) = blue
D-SUB37 (23)	IDC/FLK14-1 (8) = violet
D-SUB37 (17)	IDC/FLK14-1 (10) = gray
D-SUB37 (5)	IDC/FLK14-2 (1) = black
D-SUB37 (24)	IDC/FLK14-2 (2) = brown
D-SUB37 (6)	IDC/FLK14-2 (3) = red
D-SUB37 (25)	IDC/FLK14-2 (4) = orange
D-SUB37 (7)	IDC/FLK14-2 (5) = yellow
D-SUB37 (26)	IDC/FLK14-2 (6) = green
D-SUB37 (8)	IDC/FLK14-2 (7) = blue
D-SUB37 (27)	IDC/FLK14-2 (8) = violet
D-SUB37 (17)	IDC/FLK14-2 (10) = gray
D-SUB37 (9)	IDC/FLK14-3 (1) = black
D-SUB37 (28)	IDC/FLK14-3 (2) = brown
D-SUB37 (10)	IDC/FLK14-3 (3) = red
D-SUB37 (29)	IDC/FLK14-3 (4) = orange
D-SUB37 (11)	IDC/FLK14-3 (5) = yellow
D-SUB37 (30)	IDC/FLK14-3 (6) = green
D-SUB37 (12)	IDC/FLK14-3 (7) = blue
D-SUB37 (31)	IDC/FLK14-3 (8) = violet
D-SUB37 (18)	IDC/FLK14-3 (10) = gray
D-SUB37 (13)	IDC/FLK14-4 (1) = black
D-SUB37 (32)	IDC/FLK14-4 (2) = brown
D-SUB37 (14)	IDC/FLK14-4 (3) = red
D-SUB37 (33)	IDC/FLK14-4 (4) = orange
D-SUB37 (15)	IDC/FLK14-4 (5) = yellow
D-SUB37 (34)	IDC/FLK14-4 (6) = green

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D-SUB37 (16)	IDC/FLK14-4 (7) = blue
D-SUB37 (35)	IDC/FLK14-4 (8) = violet
D-SUB37 (36)	IDC/FLK14-4 (10) = gray

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

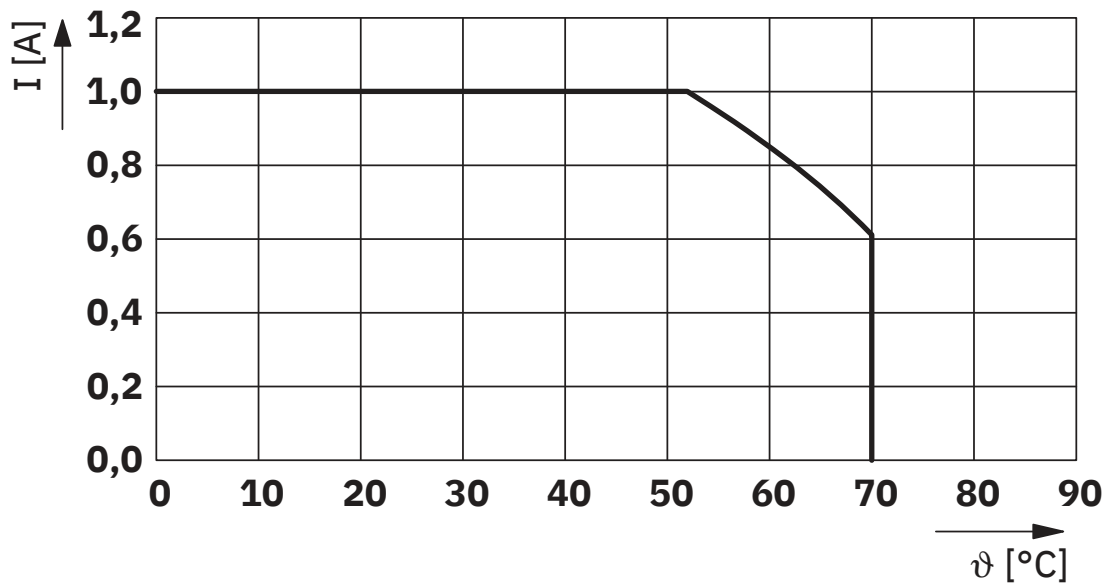
Connection in acc. with standard	based on IEC 60603-13
Connection method	IDC/FLK socket strip
Number of connections	4
Number of positions	14
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

Notes

General	For proper use, the specifications of the installation directive (see Downloads) must be observed.
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Drawings

Diagram



Maximum permissible current per path in uncoiled state

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/2302706>



EAC

Approval ID: RU*-DE.HB*35.B00385



UL Listed

Approval ID: FILE E 238705

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	125 V	1 A	-	-



cUL Listed

Approval ID: FILE E 238705

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	125 V	1 A	-	-

cULus Listed

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Classifications

ECLASS

ECLASS-11.0	27242220
ECLASS-12.0	27242220
ECLASS-13.0	27242220

ETIM

ETIM 8.0	EC000237
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UNSPSC

UNSPSC 21.0	26121600
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Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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Accessories

KME - Cable marker carrier

0807083

<https://www.phoenixcontact.com/pc/products/0807083>



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

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