

FLK 50-EZ-DR-FCN40-OMR-IN/... - Cable



2302803

<https://www.phoenixcontact.com/pc/products/2302803>

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Round cable set; controller: OMRON CJ1 (ID 231, ID 261), CQM1 (ID 112, ID 213, ID 214), CS1, C200H (ID 111, ID 216, ID 217); connection 1: Fujitsu connector (1x 40-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: variable

Your advantages

- Signal transfer of 32 channels

Commercial data

Item number	2302803
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	CK2144
Catalog page	Page 484 (C-5-2019)
Customs tariff number	85444290
Country of origin	DE

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 OMRON CQM1

Suitable I/O card	ID112
	ID213
	ID214

Supported controller OMRON CS1/C200H

Suitable I/O card	ID111
	ID216
	ID217

Supported controller OMRON C200H

Suitable I/O card	ID111
	ID216
	ID217

Supported controller OMRON CJ1

Suitable I/O card	ID231
	ID261

Cable/line

Cable length	variable
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40X0.14 [PVC]

UL AWM Style	2464/1061
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Number of positions	40
Shielded	no
Cable type	40X0.14 [PVC]
Conductor type	Round cable set
Conductor structure signal line	7x 0.16 mm
AWG signal line	26
Conductor cross section	40x 0.14 mm ²
Wire diameter incl. insulation	1 mm ±0.03 mm
External cable diameter	9.9 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	82 mm
Smallest bending radius, movable installation	155 mm
Max. bending cycles	5000 (at a radius of ≥ 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)

color code

Fujitsu40 (A1)	IDC/FLK50 (3) = black
Fujitsu40 (B1)	IDC/FLK50 (27) = brown
Fujitsu40 (A2)	IDC/FLK50 (4) = red
Fujitsu40 (B2)	IDC/FLK50 (28) = orange
Fujitsu40 (A3)	IDC/FLK50 (5) = yellow
Fujitsu40 (B3)	IDC/FLK50 (29) = green
Fujitsu40 (A4)	IDC/FLK50 (6) = blue
Fujitsu40 (B4)	IDC/FLK50 (30) = violet
Fujitsu40 (A5)	IDC/FLK50 (7) = gray
Fujitsu40 (B5)	IDC/FLK50 (31) = white
Fujitsu40 (A6)	IDC/FLK50 (8) = white-black
Fujitsu40 (B6)	IDC/FLK50 (32) = white-brown
Fujitsu40 (A7)	IDC/FLK50 (9) = white-red
Fujitsu40 (B7)	IDC/FLK50 (33) = white-orange
Fujitsu40 (A8)	IDC/FLK50 (10) = white-yellow
Fujitsu40 (B8)	IDC/FLK50 (34) = white-green
Fujitsu40 (A9)	IDC/FLK50 (1) = white-blue
Fujitsu40 (B9)	IDC/FLK50 (25) = white-violet

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Fujitsu40 (A10)	IDC/FLK50 (15) = white-gray
Fujitsu40 (B10)	IDC/FLK50 (39) = brown-black
Fujitsu40 (A11)	IDC/FLK50 (16) = brown-red
Fujitsu40 (B11)	IDC/FLK50 (40) = brown-orange
Fujitsu40 (A12)	IDC/FLK50 (17) = brown-yellow
Fujitsu40 (B12)	IDC/FLK50 (41) = brown-green
Fujitsu40 (A13)	IDC/FLK50 (18) = brown-blue
Fujitsu40 (B13)	IDC/FLK50 (42) = brown-violet
Fujitsu40 (A14)	IDC/FLK50 (19) = brown-gray
Fujitsu40 (B14)	IDC/FLK50 (43) = brown-white
Fujitsu40 (A15)	IDC/FLK50 (20) = green-black
Fujitsu40 (B15)	IDC/FLK50 (44) = green-brown
Fujitsu40 (A16)	IDC/FLK50 (21) = green-red
Fujitsu40 (B16)	IDC/FLK50 (45) = green-orange
Fujitsu40 (A17)	IDC/FLK50 (22) = green-blue
Fujitsu40 (B17)	IDC/FLK50 (46) = green-violet
Fujitsu40 (A18)	IDC/FLK50 (13) = green-gray
Fujitsu40 (B18)	IDC/FLK50 (37) = green-white

Connection data

Connection 1

Connection method	Fujitsu connector
Type	FCN 367
Number of connections	1
Number of positions	40
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

Connection 2

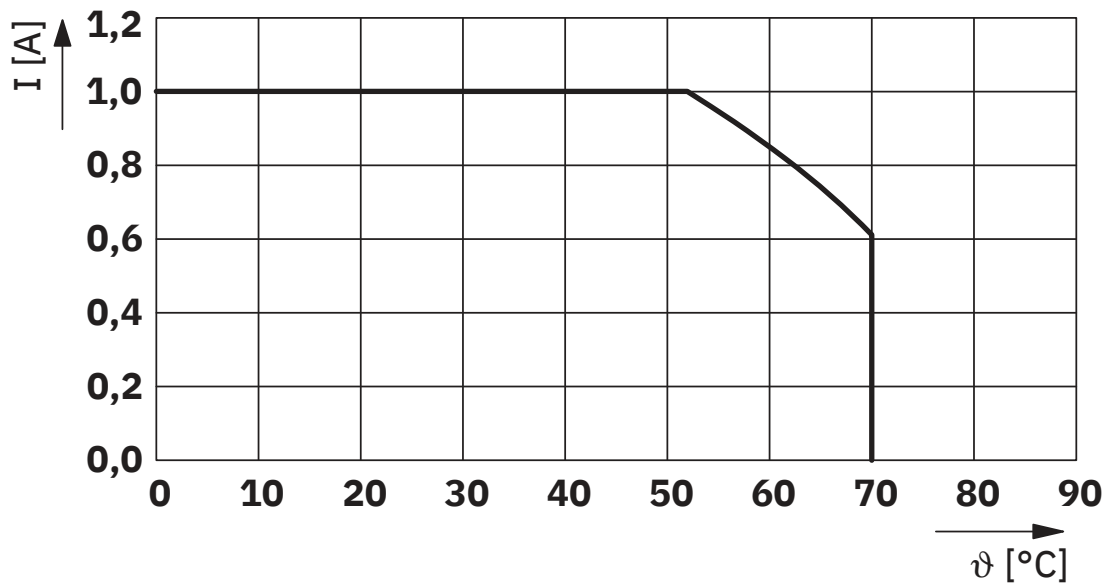
Connection in acc. with standard	based on IEC 60603-13
Connection method	IDC/FLK socket strip
Number of connections	1
Number of positions	50
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

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/2302803>



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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