

# CABLE-FCN40/1X50/ 2,0M/IM/MEL - Cable



2903470

<https://www.phoenixcontact.com/us/products/2903470>

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Round cable set; controller: Mitsubishi Electric MELSEC L, MELSEC Q, Honeywell MasterLogic ML200; connection 1: Fujitsu connector (1x 40-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 2 m

## Commercial data

Item number	2903470
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C421
Product key	CK2143
Catalog page	Page 483 (C-5-2019)
GTIN	4046356742559
Weight per piece (including packing)	316.1 g
Weight per piece (excluding packing)	306.1 g
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	QX41
	QX41-S1
	QX42
	QX42-S1
	QX71
	QX72
	QY41P
	QY42P
	QY71
	QH42P
	QY82P

#### Supported controller MITSUBISHI MELSEC L

Suitable I/O card	LX41C4
	LX42C4
	LY41NT1P
	LY42NT1P
	LY41PT1P
	LY42PT1P

#### Supported controller HONEYWELL MasterLogic 200

2MLQ-TR4A
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Suitable I/O card	2MLQ-TR8A
	2MLQ-TR4B
	2MLQ-TR8B

## Cable/line

Cable length	2 m
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### 40X0.14 [PVC]

UL AWM Style	2464/1061
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 <sup>2</sup>
Wire diameter incl. insulation	1 mm ±0.03 mm
External cable diameter	9.90 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)
Fujitsu40 (A1)	IDC/FLK50 (11) = black
Fujitsu40 (B1)	IDC/FLK50 (1) = brown
Fujitsu40 (A2)	IDC/FLK50 (48) = red
Fujitsu40 (B2)	IDC/FLK50 (38) = orange
Fujitsu40 (A3)	() =
Fujitsu40 (B3)	() =
Fujitsu40 (A4)	() =
Fujitsu40 (B4)	() =
Fujitsu40 (A5)	IDC/FLK50 (46) = yellow
Fujitsu40 (B5)	IDC/FLK50 (22) = green
Fujitsu40 (A6)	IDC/FLK50 (45) = blue

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Fujitsu40 (B6)	IDC/FLK50 (21) = violet
Fujitsu40 (A7)	IDC/FLK50 (44) = gray
Fujitsu40 (B7)	IDC/FLK50 (20) = white
Fujitsu40 (A8)	IDC/FLK50 (43) = white-black
Fujitsu40 (B8)	IDC/FLK50 (19) = white-brown
Fujitsu40 (A9)	IDC/FLK50 (42) = white-red
Fujitsu40 (B9)	IDC/FLK50 (18) = white-orange
Fujitsu40 (A10)	IDC/FLK50 (41) = white-yellow
Fujitsu40 (B10)	IDC/FLK50 (17) = white-green
Fujitsu40 (A11)	IDC/FLK50 (40) = white-blue
Fujitsu40 (B11)	IDC/FLK50 (16) = white-violet
Fujitsu40 (A12)	IDC/FLK50 (39) = white-gray
Fujitsu40 (B12)	IDC/FLK50 (15) = brown-black
Fujitsu40 (A13)	IDC/FLK50 (34) = brown-red
Fujitsu40 (B13)	IDC/FLK50 (10) = brown-orange
Fujitsu40 (A14)	IDC/FLK50 (33) = brown-yellow
Fujitsu40 (B14)	IDC/FLK50 (9) = brown-green
Fujitsu40 (A15)	IDC/FLK50 (32) = brown-blue
Fujitsu40 (B15)	IDC/FLK50 (8) = brown-violet
Fujitsu40 (A16)	IDC/FLK50 (31) = brown-gray
Fujitsu40 (B16)	IDC/FLK50 (7) = brown-white
Fujitsu40 (A17)	IDC/FLK50 (30) = green-black
Fujitsu40 (B17)	IDC/FLK50 (6) = green-brown
Fujitsu40 (A18)	IDC/FLK50 (29) = green-red
Fujitsu40 (B18)	IDC/FLK50 (5) = green-orange
Fujitsu40 (A19)	IDC/FLK50 (28) = green-blue
Fujitsu40 (B19)	IDC/FLK50 (4) = green-violet
Fujitsu40 (A20)	IDC/FLK50 (27) = green-gray
Fujitsu40 (B20)	IDC/FLK50 (3) = 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

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Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

## Notes

General	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.
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## Classifications

### ECLASS

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

### ETIM

ETIM 9.0	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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