

# CABLE-FCN40/1X50/ 6,0M/IP/MEL - Cable



2903481

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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: 6 m

## Commercial data

Item number	2903481
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C421
Product key	DK226M
GTIN	4046356742900
Weight per piece (including packing)	685.1 g
Weight per piece (excluding packing)	333.33 g
Customs tariff number	85444290
Country of origin	DE

## Technical data

### Product properties

Product type	System cable
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#### Insulation characteristics: Air clearances and creepage distances

Insulation	Functional insulation
Overvoltage category	II
Pollution degree	2

### 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)	≤ 25 V AC
Operating voltage (DC)	≤ 60 V DC
Nominal operating mode	100% operating factor
Current (Per path, 50°C)	≤ 1 A
Current (Per path)	≤ 0.6 A

#### Air clearances and creepage distances

Rated insulation voltage	63 V
Rated surge voltage	0.6 kV

#### Supported controller: MITSUBISHI MELSEC Q

Suitable I/O card	QX71
	QX72
	QX82
	QX82-S1

#### Supported controller: MITSUBISHI MELSEC L

Suitable I/O card	LX41C4
	LX42C4

#### Supported controller: HONEYWELL MasterLogic 200

Suitable I/O card	2MLI-D24A
	2MLI-D28B
	2MLF-SOEA

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## Cable/line

Cable length	6 m
34X0.14 [PVC]	
UL AWM Style	2464/1061
Number of positions	34
Shielded	no
Cable type	34X0.14 [PVC]
Conductor type	Round cable set
Conductor structure signal line	7x 0.16 mm
AWG signal line	26
Conductor cross-section	34x 0.14 mm <sup>2</sup>
Wire diameter incl. insulation	1 mm ±0.03 mm
External cable diameter	8.70 mm ±0.3 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	72 mm
Smallest bending radius, movable installation	135 mm
Dynamic load capacity (bending)	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)
Cable type	Cable for one module

## Color code: Single-core wire

black	Fujitsu40 (B1) = IDC/FLK50 (11)
brown	Fujitsu40 (B2) = IDC/FLK50 (48)
red	Fujitsu40 (A5) = IDC/FLK50 (46)
orange	Fujitsu40 (B5) = IDC/FLK50 (22)
yellow	Fujitsu40 (A6) = IDC/FLK50 (45)
green	Fujitsu40 (B6) = IDC/FLK50 (21)
blue	Fujitsu40 (A7) = IDC/FLK50 (44)
violet	Fujitsu40 (B7) = IDC/FLK50 (20)
gray	Fujitsu40 (A8) = IDC/FLK50 (43)
white	Fujitsu40 (B8) = IDC/FLK50 (19)
white-black	Fujitsu40 (A9) = IDC/FLK50 (42)

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

## Connection data

### 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

### Controller level

Connection method	Fujitsu connector
Number of connections	1
Number of positions	40
Insertion/withdrawal cycles	> 50

## Standards and regulations

### Air clearances and creepage distances

Standards/regulations	DIN EN 50178
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## Notes

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## 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.

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## Drawings

Connection diagram

Fujitsu FCN 40	FLK 50	Fujitsu FCN 40	FLK 50
PIN A1		PIN B16	PIN 7
PIN B1	PIN 11	PIN A17	PIN 30
PIN A2		PIN B17	PIN 6
PIN B2	PIN 48	PIN A18	PIN 29
PIN A3		PIN B18	PIN 5
PIN B3		PIN A19	PIN 28
PIN A4		PIN B19	PIN 4
PIN B4		PIN A20	PIN 27
PIN A5	PIN 46	PIN B20	PIN 3
PIN B5	PIN 22		PIN 12
PIN A6	PIN 45		PIN 23
PIN B6	PIN 21		PIN 24
PIN A7	PIN 44		PIN 35
PIN B7	PIN 20		PIN 36
PIN A8	PIN 43		PIN 47
PIN B8	PIN 19		
PIN A9	PIN 42		
PIN B9	PIN 18		
PIN A10	PIN 41		
PIN B10	PIN 17		
PIN A11	PIN 40		
PIN B11	PIN 16		
PIN A12	PIN 39		
PIN B12	PIN 15		
PIN A13	PIN 34		
PIN B13	PIN 10		
PIN A14	PIN 33		
PIN B14	PIN 9		
PIN A15	PIN 32		
PIN B15	PIN 8		
PIN A16	PIN 31		

Diagram



Maximum permissible current per path in uncoiled state

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## Classifications

### UNSPSC

UNSPSC 21.0	26121620
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## 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)
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