

## Cable - CABLE-FCN40/1X50/ 1,0M/IP/MEL - 2903477


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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: 1 m

RoHS

### Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 743280
GTIN	4046356743280

### Technical data

#### Ambient conditions

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

#### General

Max. permissible operating voltage	25 V AC
	60 V DC
Max. current carrying capacity per path	1 A (50 °C)
	0.6 A (70 °C)
Length of cable	1 m
External cable diameter	9.9 mm ±0.4 mm
Single wire, cross section	0.14 mm <sup>2</sup>
Single wire, cross section [AWG]	26
Single wire, number of litz wires	7
Single wire, material	Cu tin-plated

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## Technical data

### General

Wire diameter incl. insulation	1 mm ±0.03 mm
Smallest bending radius, fixed installation	82 mm
Smallest bending radius, movable installation	155 mm
Bending cycles	5000 (at a radius of ≥ 15x outside diameter)
Shielding	no
Cable insulation resistance	≥ 20 MΩ/km (20 °C)
Cable resistance	≤ 145 Ω/km (20 °C)
Outer sheath, material	Semi-rigid PVC
External sheath, color	gray
Nominal operating mode	100% operating factor

### Connection data

Connection name	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

### Connection data 2

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

### Standards and Regulations

Flame resistance	UL VW-1
	CSA FT-1
	IEC 60332-1-2
	VDE 0842, Part 332-1-2
	IEC 60332-3-22
Resistance to oil	against occasional splashes
Gasoline resistance	against occasional splashes
Designation	Air clearances and creepage distances
Standards/regulations	DIN EN 50178
Rated insulation voltage	63 V
Rated surge voltage	0.6 kV
Insulation	Functional insulation
Pollution degree	2
Overvoltage category	II

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### Technical data

#### Supported controller

Controller	MITSUBISHI MELSEC Q
- suitable I/O card	QX71
	QX72
	QX82
	QX82-S1
Controller	MITSUBISHI MELSEC L
- suitable I/O card	LX41C4
	LX42C4
Controller	Honeywell MasterLogic 200
- suitable I/O card	2MLI-D24A
	2MLI-D28B
	2MLF-SOEA

#### Color code

Connector 1 = connector 2 (optional) = wire color	Fujitsu40 (A1) =
	Fujitsu40 (B1) = IDC/FLK50 (11) = black
	Fujitsu40 (A2) =
	Fujitsu40 (B2) = IDC/FLK50 (48) = brown
	Fujitsu40 (A3) =
	Fujitsu40 (B3) =
	Fujitsu40 (A4) =
	Fujitsu40 (B4) =
	Fujitsu40 (A5) = IDC/FLK50 (46) = red
	Fujitsu40 (B5) = IDC/FLK50 (22) = orange
	Fujitsu40 (A6) = IDC/FLK50 (45) = yellow
	Fujitsu40 (B6) = IDC/FLK50 (21) = green
	Fujitsu40 (A7) = IDC/FLK50 (44) = blue
	Fujitsu40 (B7) = IDC/FLK50 (20) = violet
	Fujitsu40 (A8) = IDC/FLK50 (43) = gray
	Fujitsu40 (B8) = IDC/FLK50 (19) = white
	Fujitsu40 (A9) = IDC/FLK50 (42) = white-black
	Fujitsu40 (B9) = IDC/FLK50 (18) = white-brown
	Fujitsu40 (A10) = IDC/FLK50 (41) = white-red
	Fujitsu40 (B10) = IDC/FLK50 (17) = white-orange
	Fujitsu40 (A11) = IDC/FLK50 (40) = white-yellow
	Fujitsu40 (B11) = IDC/FLK50 (16) = white-green
	Fujitsu40 (A12) = IDC/FLK50 (39) = white-blue
	Fujitsu40 (B12) = IDC/FLK50 (15) = white-violet
	Fujitsu40 (A13) = IDC/FLK50 (34) = white-gray
	Fujitsu40 (B13) = IDC/FLK50 (10) = brown-black
	Fujitsu40 (A14) = IDC/FLK50 (33) = brown-red

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### Technical data

#### Color code

	Fujitsu40 (B14) = IDC/FLK50 (9) = brown-orange
	Fujitsu40 (A15) = IDC/FLK50 (32) = brown-yellow
	Fujitsu40 (B15) = IDC/FLK50 (8) = brown-green
	Fujitsu40 (A16) = IDC/FLK50 (31) = brown-blue
	Fujitsu40 (B16) = IDC/FLK50 (7) = brown-violet
	Fujitsu40 (A17) = IDC/FLK50 (30) = brown-gray
	Fujitsu40 (B17) = IDC/FLK50 (6) = brown-white
	Fujitsu40 (A18) = IDC/FLK50 (29) = green-black
	Fujitsu40 (B18) = IDC/FLK50 (5) = green-brown
	Fujitsu40 (A19) = IDC/FLK50 (28) = green-red
	Fujitsu40 (B19) = IDC/FLK50 (4) = green-orange
	Fujitsu40 (A20) = IDC/FLK50 (27) = green-blue
	Fujitsu40 (B20) = IDC/FLK50 (3) = green-violet

#### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

### Drawings

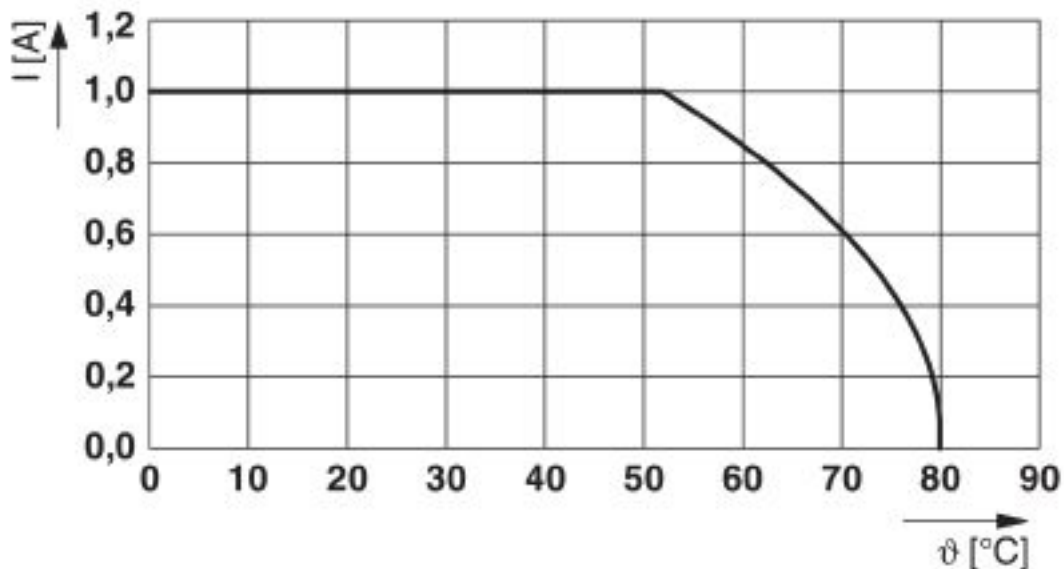
# Cable - CABLE-FCN40/1X50/ 1,0M/IP/MEL - 2903477

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		

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Diagram



Maximum permissible current per path in uncoiled state

## Classifications

### eCl@ss

eCl@ss 10.0.1	27242220
eCl@ss 4.0	27060300
eCl@ss 4.1	27060300
eCl@ss 5.0	27242200
eCl@ss 5.1	27242200
eCl@ss 6.0	27249200
eCl@ss 7.0	27249205
eCl@ss 8.0	27249205
eCl@ss 9.0	27242220

### ETIM

ETIM 2.0	EC000237
ETIM 3.0	EC000237
ETIM 4.0	EC000237
ETIM 5.0	EC000237
ETIM 6.0	EC000237
ETIM 7.0	EC000237

### UNSPSC

UNSPSC 6.01	26121620
UNSPSC 7.0901	26121620
UNSPSC 11	26121620

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## Classifications

### UNSPSC

UNSPSC 12.01	26121620
UNSPSC 13.2	26121620
UNSPSC 18.0	26121620
UNSPSC 19.0	26121620
UNSPSC 20.0	26121620
UNSPSC 21.0	26121620

## Approvals

### Approvals

#### Approvals

UL Listed / cUL Listed / EAC / cULus Listed

#### Ex Approvals

### Approval details

UL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 238705
Nominal voltage UN		125 V	
Nominal current IN		1 A	

cUL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 238705
Nominal voltage UN		125 V	
Nominal current IN		1 A	

EAC		RU* DE.HB*35.B00385
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cULus Listed	
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## Cable - CABLE-FCN40/1X50/ 1,0M/IP/MEL - 2903477

### Accessories

#### Accessories

#### Marker carrier cable

Cable marker carrier - KME - 0807083



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

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