

## Cable - CABLE-FCN40/4X14/ 8,0M/IM/MEL - 2903508


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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 (4x 14-position); cable length: 8 m



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 745468
GTIN	4046356745468

### 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	8 m
External cable diameter	4x 6.1 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	52 mm
Smallest bending radius, movable installation	98 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	4
Number of positions	14
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	QX41
	QX41-S1
	QX42
	QX42-S1
	QY41P
	QY42P
	QH42P
	QY82P
Controller	MITSUBISHI MELSEC L
- suitable I/O card	LX41C4
	LX42C4
	LY41NT1P
	LY42NT1P
	LY41PT1P
	LY42PT1P
Controller	Honeywell MasterLogic 200
- suitable I/O card	2MLQ-TR4A
	2MLQ-TR8A
	2MLQ-TR4B
	2MLQ-TR8B

#### Color code

Connector 1 = connector 2 (optional) = wire color	Fujitsu40 (B20) = IDC/FLK14-1 (1) = black
	Fujitsu40 (B19) = IDC/FLK14-1 (2) = brown
	Fujitsu40 (B18) = IDC/FLK14-1 (3) = red
	Fujitsu40 (B17) = IDC/FLK14-1 (4) = orange
	Fujitsu40 (B16) = IDC/FLK14-1 (5) = yellow
	Fujitsu40 (B15) = IDC/FLK14-1 (6) = green
	Fujitsu40 (B14) = IDC/FLK14-1 (7) = blue
	Fujitsu40 (B13) = IDC/FLK14-1 (8) = violet
	Fujitsu40 (B1) = IDC/FLK14-1 (9) = gray
	Fujitsu40 (A1) = IDC/FLK14-1 (10) = white
	Fujitsu40 (B12) = IDC/FLK14-2 (1) = black
	Fujitsu40 (B11) = IDC/FLK14-2 (2) = brown
	Fujitsu40 (B10) = IDC/FLK14-2 (3) = red
	Fujitsu40 (B9) = IDC/FLK14-2 (4) = orange
	Fujitsu40 (B8) = IDC/FLK14-2 (5) = yellow
	Fujitsu40 (B7) = IDC/FLK14-2 (6) = green
	Fujitsu40 (B6) = IDC/FLK14-2 (7) = blue
	Fujitsu40 (B5) = IDC/FLK14-2 (8) = violet

## Cable - CABLE-FCN40/4X14/ 8,0M/IM/MEL - 2903508

### Technical data

#### Color code

	Fujitsu40 (B1) = IDC/FLK14-2 (9) = gray
	Fujitsu40 (A1) = IDC/FLK14-2 (10) = white
	Fujitsu40 (A20) = IDC/FLK14-3 (1) = black
	Fujitsu40 (A19) = IDC/FLK14-3 (2) = brown
	Fujitsu40 (A18) = IDC/FLK14-3 (3) = red
	Fujitsu40 (A17) = IDC/FLK14-3 (4) = orange
	Fujitsu40 (A16) = IDC/FLK14-3 (5) = yellow
	Fujitsu40 (A15) = IDC/FLK14-3 (6) = green
	Fujitsu40 (A14) = IDC/FLK14-3 (7) = blue
	Fujitsu40 (A13) = IDC/FLK14-3 (8) = violet
	Fujitsu40 (B2) = IDC/FLK14-3 (9) = gray
	Fujitsu40 (A2) = IDC/FLK14-3 (10) = white
	Fujitsu40 (A12) = IDC/FLK14-4 (1) = black
	Fujitsu40 (A11) = IDC/FLK14-4 (2) = brown
	Fujitsu40 (A10) = IDC/FLK14-4 (3) = red
	Fujitsu40 (A9) = IDC/FLK14-4 (4) = orange
	Fujitsu40 (A8) = IDC/FLK14-4 (5) = yellow
	Fujitsu40 (A7) = IDC/FLK14-4 (6) = green
	Fujitsu40 (A6) = IDC/FLK14-4 (7) = blue
	Fujitsu40 (A5) = IDC/FLK14-4 (8) = violet
	Fujitsu40 (B2) = IDC/FLK14-4 (9) = gray
	Fujitsu40 (A2) = IDC/FLK14-4 (10) = white

#### 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

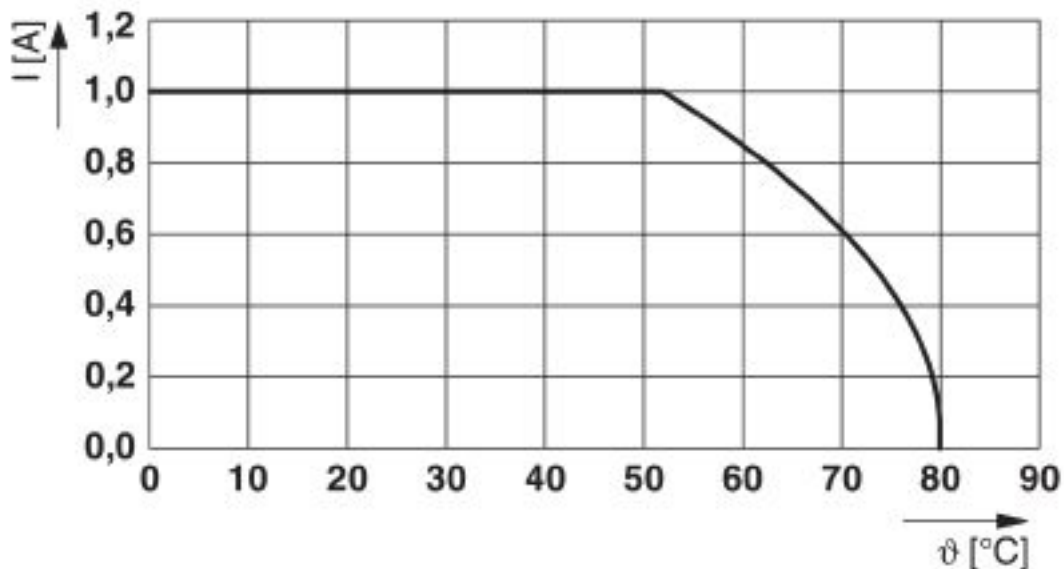
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Connection diagram

Socket strip (X1)	Double assignment	Conductor color	FLK 14	FLK 14	FLK 14	FLK 14
			(X2) Byte 0	(X3) Byte 1	(X4) Byte 2	(X5) Byte 3
PIN B20		Black	PIN 1			
PIN B19		Brown	PIN 2			
PIN B18		Red	PIN 3			
PIN B17		Orange	PIN 4			
PIN B16		Yellow	PIN 5			
PIN B15		Green	PIN 6			
PIN B14		Blue	PIN 7			
PIN B13		Violet	PIN 8			
PIN B01		Gray	PIN 9			
PIN A01		White	PIN10			
PIN B12		Black		PIN 1		
PIN B11		Brown		PIN 2		
PIN B10		Red		PIN 3		
PIN B09		Orange		PIN 4		
PIN B08		Yellow		PIN 5		
PIN B07		Green		PIN 6		
PIN B06		Blue		PIN 7		
PIN B05		Violet		PIN 8		
		Gray		PIN 9		
		White		PIN10		
PIN A20		Black			PIN 1	
PIN A19		Brown			PIN 2	
PIN A18		Red			PIN 3	
PIN A17		Orange			PIN 4	
PIN A16		Yellow			PIN 5	
PIN A15		Green			PIN 6	
PIN A14		Blue			PIN 7	
PIN A13		Violet			PIN 8	
PIN B02		Gray			PIN 9	
PIN A02		White			PIN10	
PIN A12		Black				PIN 1
PIN A11		Brown				PIN 2
PIN A10		Red				PIN 3
PIN A09		Orange				PIN 4
PIN A08		Yellow				PIN 5
PIN A07		Green				PIN 6
PIN A06		Blue				PIN 7
PIN A05		Violet				PIN 8
		Gray				PIN 9
		White				PIN10

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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-FCN40/4X14/ 8,0M/IM/MEL - 2903508

### 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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