

# CABLE-FCN40/4X14/ 3,0M/IM/MEL - Cable



2903505

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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: 3 m

## Commercial data

Item number	2903505
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C421
Product key	DK226M
GTIN	4046356745437
Weight per piece (including packing)	617.1 g
Weight per piece (excluding packing)	627.1 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) (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)	≤ 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
	QY41P
	QY42P
	QH42P
	QY82P

#### Supported controller: MITSUBISHI MELSEC L

Suitable I/O card	LX41C4
	LX42C4
	LY41NT1P
	LY42NT1P
	LY41PT1P
	LY42PT1P

#### Supported controller: HONEYWELL MasterLogic 200

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

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## Cable/line

Cable length	3 m
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### 10X0.14 [PVC]

UL AWM Style	2464/1061
Number of positions	10
Shielded	no
Cable type	10X0.14 [PVC]
Conductor type	Round cable set
Conductor structure signal line	7x 0.16 mm
AWG signal line	26
Conductor cross-section	10x 0.14 mm <sup>2</sup>
Wire diameter incl. insulation	1 mm ±0.03 mm
External cable diameter	6.10 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	52 mm
Smallest bending radius, movable installation	98 mm
Dynamic load capacity (bending)	Max. bending cycles: 5000
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	Splitting cable for four modules

### Color code: Single-core wire

black	Fujitsu40 (B20) = IDC/FLK14-1 (1)
brown	Fujitsu40 (B19) = IDC/FLK14-1 (2)
red	Fujitsu40 (B18) = IDC/FLK14-1 (3)
orange	Fujitsu40 (B17) = IDC/FLK14-1 (4)
yellow	Fujitsu40 (B16) = IDC/FLK14-1 (5)
green	Fujitsu40 (B15) = IDC/FLK14-1 (6)
blue	Fujitsu40 (B14) = IDC/FLK14-1 (7)
violet	Fujitsu40 (B13) = IDC/FLK14-1 (8)
gray	Fujitsu40 (B1) = IDC/FLK14-1 (9)
white	Fujitsu40 (A1) = IDC/FLK14-1 (10)
black	Fujitsu40 (B12) = IDC/FLK14-2 (1)
brown	Fujitsu40 (B11) = IDC/FLK14-2 (2)

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red	Fujitsu40 (B10) = IDC/FLK14-2 (3)
orange	Fujitsu40 (B9) = IDC/FLK14-2 (4)
yellow	Fujitsu40 (B8) = IDC/FLK14-2 (5)
green	Fujitsu40 (B7) = IDC/FLK14-2 (6)
blue	Fujitsu40 (B6) = IDC/FLK14-2 (7)
violet	Fujitsu40 (B5) = IDC/FLK14-2 (8)
gray	Fujitsu40 (B1) = IDC/FLK14-2 (9)
white	Fujitsu40 (A1) = IDC/FLK14-2 (10)
black	Fujitsu40 (A20) = IDC/FLK14-3 (1)
brown	Fujitsu40 (A19) = IDC/FLK14-3 (2)
red	Fujitsu40 (A18) = IDC/FLK14-3 (3)
orange	Fujitsu40 (A17) = IDC/FLK14-3 (4)
yellow	Fujitsu40 (A16) = IDC/FLK14-3 (5)
green	Fujitsu40 (A15) = IDC/FLK14-3 (6)
blue	Fujitsu40 (A14) = IDC/FLK14-3 (7)
violet	Fujitsu40 (A13) = IDC/FLK14-3 (8)
gray	Fujitsu40 (B2) = IDC/FLK14-3 (9)
white	Fujitsu40 (A2) = IDC/FLK14-3 (10)
black	Fujitsu40 (A12) = IDC/FLK14-4 (1)
brown	Fujitsu40 (A11) = IDC/FLK14-4 (2)
red	Fujitsu40 (A10) = IDC/FLK14-4 (3)
orange	Fujitsu40 (A9) = IDC/FLK14-4 (4)
yellow	Fujitsu40 (A8) = IDC/FLK14-4 (5)
green	Fujitsu40 (A7) = IDC/FLK14-4 (6)
blue	Fujitsu40 (A6) = IDC/FLK14-4 (7)
violet	Fujitsu40 (A5) = IDC/FLK14-4 (8)
gray	Fujitsu40 (B2) = IDC/FLK14-4 (9)
white	Fujitsu40 (A2) = IDC/FLK14-4 (10)

## 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	IEC 60603-13 (in compliance)
Connection method	IDC/FLK socket strip
Number of connections	4
Number of positions	14
Insertion/withdrawal cycles	> 50

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Pitch	2.54 mm
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## Notes

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

Socket strip (X1)	Double assignment	Conductor color	FLK 14 (X2) Byte 0	FLK 14 (X3) Byte 1	FLK 14 (X4) Byte 2	FLK 14 (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

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2903505>



**EAC**

Approval ID: RU\*-DE.HB\*35.B00385

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## Classifications

### ECLASS

ECLASS-13.0	27242220
ECLASS-15.0	27242220

### ETIM

ETIM 10.0	EC000237
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### UNSPSC

UNSPSC 21.0	26121600
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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)
SCIP	0ede557b-379c-4b5a-bfb8-39e667f90d47

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