

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



2903505

<https://www.phoenixcontact.com/us/products/2903505>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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

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



2903505

<https://www.phoenixcontact.com/us/products/2903505>

Technical data

Product properties

Product type	System cable
--------------	--------------

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

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



2903505

<https://www.phoenixcontact.com/us/products/2903505>

Cable/line

Cable length	3 m
--------------	-----

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 ²
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)

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



2903505

<https://www.phoenixcontact.com/us/products/2903505>

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

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



2903505

<https://www.phoenixcontact.com/us/products/2903505>

Pitch	2.54 mm
-------	---------

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.
--------------------	--

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



2903505

<https://www.phoenixcontact.com/us/products/2903505>

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	

Diagram



Maximum permissible current per path in uncoiled state

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



2903505

<https://www.phoenixcontact.com/us/products/2903505>

Approvals

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



EAC

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

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



2903505

<https://www.phoenixcontact.com/us/products/2903505>

Classifications

ECLASS

ECLASS-13.0	27242220
ECLASS-15.0	27242220

ETIM

ETIM 10.0	EC000237
-----------	----------

UNSPSC

UNSPSC 21.0	26121600
-------------	----------

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



2903505

<https://www.phoenixcontact.com/us/products/2903505>

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

Phoenix Contact 2026 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com