

Cable - CABLE-FCN40/4X14/ 1,0M/IM/MEL



2903503

<https://www.phoenixcontact.com/pc/products/2903503>

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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: 1 m

Commercial Data

Item number	2903503
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to Order (non-returnable)
Product Key	CK2143
Catalog Page	Page 483 (C-5-2019)
GTIN	4046356745505
Weight per Piece (including packing)	224.5 g
Weight per Piece (excluding packing)	224.5 g
Customs tariff number	85444290
Country of origin	DE

Technical Data

Product properties

Product type	System cable
Insulation characteristics	
Overvoltage category	II
Pollution degree	2
Insulation	Functional insulation

Environmental and real-life conditions

Ambient conditions

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

Electrical properties

Max. permissible operating voltage	25 V AC
	60 V DC
Nominal operating mode	100% operating factor
Max. current carrying capacity per path	1 A (50 °C)
	0.6 A (70 °C)
Rated insulation voltage	63 V
Rated surge voltage	0.6 kV

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

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	LY42PT1P
Supported controller HONEYWELL MasterLogic 200	
Suitable I/O card	2MLQ-TR4A
	2MLQ-TR8A
	2MLQ-TR4B
	2MLQ-TR8B

Cable / line

Cable length	1 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 ²
Wire diameter incl. insulation	1 mm ±0.03 mm
External cable diameter	6.1 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
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)
Type	Splitting cable for four modules

color code

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

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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
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

Connection data

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

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Pitch	2.54 mm
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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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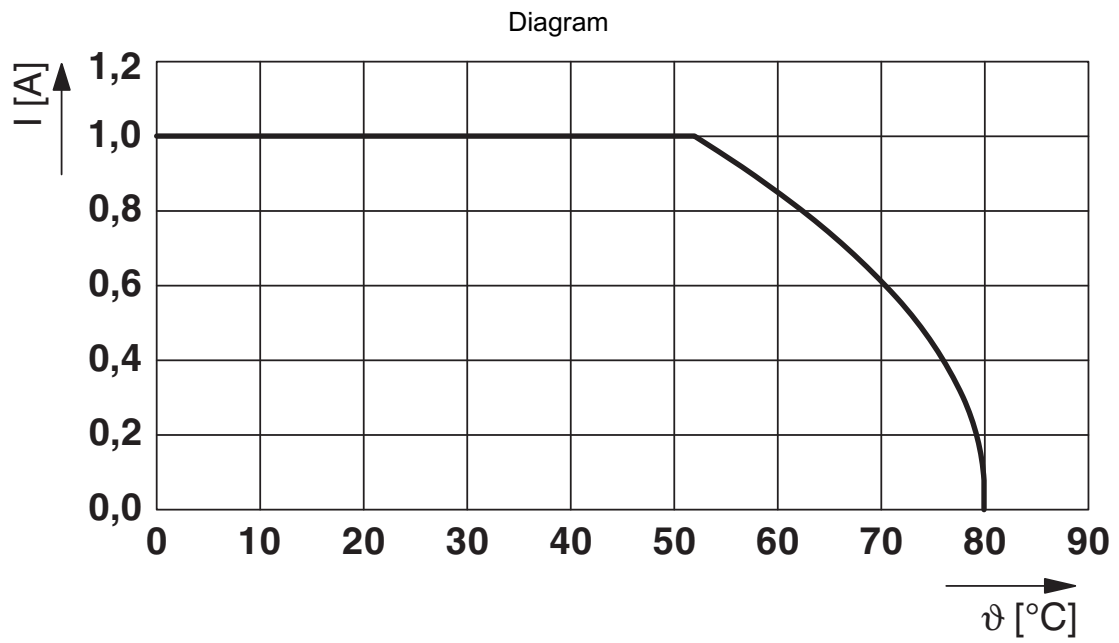
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Drawings

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	



Maximum permissible current per path in uncoiled state

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Approvals



EAC

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



UL Listed

Approval ID: FILE E 238705

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	125 V	1 A	-	-



cUL Listed

Approval ID: FILE E 238705

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	125 V	1 A	-	-

cULus Listed

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Classifications

ECLASS

ECLASS-9.0	27242220
ECLASS-10.0.1	27242220
ECLASS-11.0	27242220

ETIM

ETIM 8.0	EC000237
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UNSPSC

UNSPSC 21.0	26121600
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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Accessories

Cable marker carrier

Cable marker carrier - KME - 0807083

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

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