

# Round cable - CABLE-FCN40/1X50/ 6,0M/M340



2321680

<https://www.phoenixcontact.com/pc/products/2321680>

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Round cable set; controller: MODICON® M340 (BMX DDI 3202K, BMX DDI 6402K, BMX DD0 3202K, BMX DD0 6402K, BMX DDM 3202K); connection 1: Fujitsu connector (1x 40-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 6 m

## Your advantages

- Signal transfer of 32 channels

## Commercial Data

Item number	2321680
Packing unit	1 pc
Minimum order quantity	1 pc
Product Key	CK2146
Catalog Page	Page 491 (C-5-2019)
GTIN	4046356412179
Weight per Piece (including packing)	877 g
Weight per Piece (excluding packing)	800 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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### Insulation characteristics

Overvoltage category	II
Pollution degree	2
Insulation	Functional insulation

### Ambient conditions

Degree of protection	IP00 ≥ 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 SCHNEIDER ELECTRIC Modicon M340

Suitable I/O card	BMX DDI 3202K BMX DDI 6402K BMX DD0 3202K BMX DD0 6402K BMX DDM 3202K
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### Cable / line

Cable length	6 m
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### 40X0.14 [PVC]

UL AWM Style	2464/1061
Number of positions	40
Shielded	no
Cable type	40X0.14 [PVC]
Conductor type	Round cable set
Conductor structure signal line	7x 0.16 mm
AWG signal line	26

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Conductor cross section	40x 0.14 mm <sup>2</sup>
Wire diameter incl. insulation	1 mm ±0.03 mm
External cable diameter	9.9 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	82 mm
Smallest bending radius, movable installation	155 mm
Max. bending cycles	5000 (at a radius of ≥ 15x outside diameter)
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	Cable for one module

## color code

Fujitsu40 (A1)	IDC/FLK50 (47) = black
Fujitsu40 (B1)	IDC/FLK50 (37) = brown
Fujitsu40 (A2)	IDC/FLK50 (35) = red
Fujitsu40 (B2)	IDC/FLK50 (25) = orange
Fujitsu40 (A3)	IDC/FLK50 (46) = yellow
Fujitsu40 (B3)	IDC/FLK50 (45) = green
Fujitsu40 (A4)	IDC/FLK50 (44) = blue
Fujitsu40 (B4)	IDC/FLK50 (43) = violet
Fujitsu40 (A5)	IDC/FLK50 (42) = gray
Fujitsu40 (B5)	IDC/FLK50 (41) = white
Fujitsu40 (A6)	IDC/FLK50 (40) = white-black
Fujitsu40 (B6)	IDC/FLK50 (39) = white-brown
Fujitsu40 (A7)	IDC/FLK50 (34) = white-red
Fujitsu40 (B7)	IDC/FLK50 (33) = white-orange
Fujitsu40 (A8)	IDC/FLK50 (32) = white-yellow
Fujitsu40 (B8)	IDC/FLK50 (31) = white-green
Fujitsu40 (A9)	IDC/FLK50 (30) = white-blue
Fujitsu40 (B9)	IDC/FLK50 (29) = white-violet
Fujitsu40 (A10)	IDC/FLK50 (28) = white-gray
Fujitsu40 (B10)	IDC/FLK50 (27) = brown-black
Fujitsu40 (A11)	IDC/FLK50 (23) = brown-red
Fujitsu40 (B11)	IDC/FLK50 (13) = brown-orange
Fujitsu40 (A12)	IDC/FLK50 (11) = brown-yellow

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Fujitsu40 (B12)	IDC/FLK50 (1) = brown-green
Fujitsu40 (A13)	IDC/FLK50 (22) = brown-blue
Fujitsu40 (B13)	IDC/FLK50 (21) = brown-violet
Fujitsu40 (A14)	IDC/FLK50 (20) = brown-gray
Fujitsu40 (B14)	IDC/FLK50 (19) = brown-white
Fujitsu40 (A15)	IDC/FLK50 (18) = green-black
Fujitsu40 (B15)	IDC/FLK50 (17) = green-brown
Fujitsu40 (A16)	IDC/FLK50 (16) = green-red
Fujitsu40 (B16)	IDC/FLK50 (15) = green-orange
Fujitsu40 (A17)	IDC/FLK50 (10) = green-blue
Fujitsu40 (B17)	IDC/FLK50 (9) = green-violet
Fujitsu40 (A18)	IDC/FLK50 (8) = green-gray
Fujitsu40 (B18)	IDC/FLK50 (7) = green-white
Fujitsu40 (A19)	IDC/FLK50 (6) = yellow-black
Fujitsu40 (B19)	IDC/FLK50 (5) = yellow-brown
Fujitsu40 (A20)	IDC/FLK50 (4) = yellow-red
Fujitsu40 (B20)	IDC/FLK50 (3) = yellow-orange

## Connection data

### 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

### Controller level

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

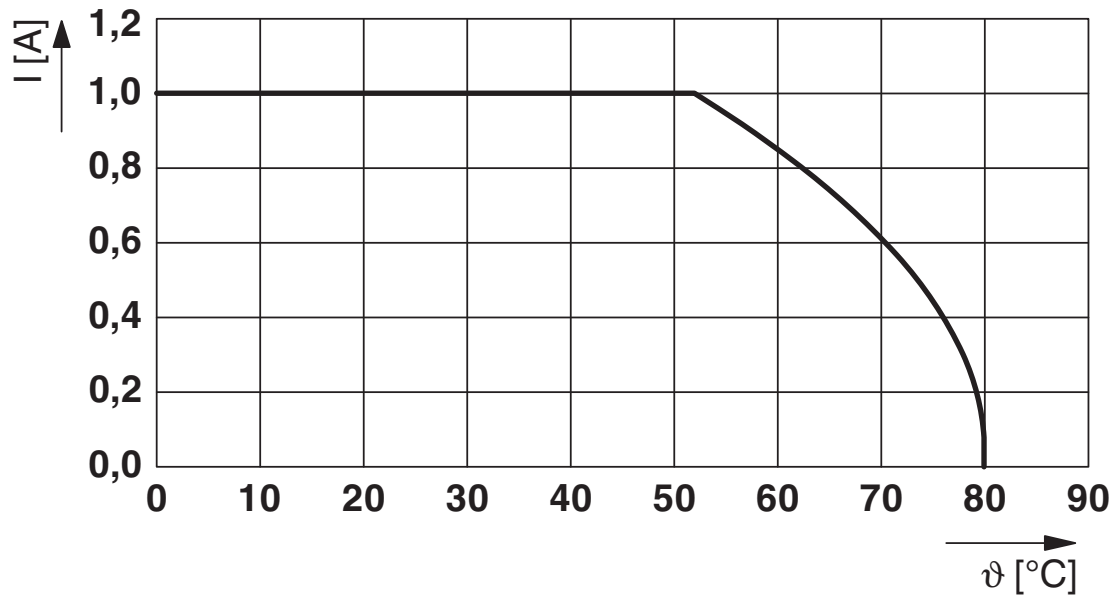
## Standards and regulations

### Air clearances and creepage distances

Standards/regulations	DIN EN 50178
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Drawings

Diagram



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 $\text{mm}^2$
	125 V	1 A	-	-



### cUL Listed

Approval ID: FILE E 238705

	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $\text{mm}^2$
	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

<https://www.phoenixcontact.com/pc/products/0807083>



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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