

# CABLE-FCN40/1X50/ 3,0M/M340 - Cable



2321664  
<https://www.phoenixcontact.com/us/products/2321664>

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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: 3 m

## Your advantages

- Signal transfer of 32 channels

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2321664       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | C421          |
| Product key                          | DK226F        |
| GTIN                                 | 4046356411363 |
| Weight per piece (including packing) | 452.65 g      |
| Weight per piece (excluding packing) | 441.7 g       |
| Customs tariff number                | 85444290      |
| Country of origin                    | DE            |

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## 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 SCHNEIDER ELECTRIC Modicon M340

|                   |               |
|-------------------|---------------|
| Suitable I/O card | BMX DDI 3202K |
|                   | BMX DDI 6402K |
|                   | BMX DD0 3202K |
|                   | BMX DD0 6402K |
|                   | BMX DDM 3202K |

### Cable/line

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

#### 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                       |
| Conductor cross section         | 40x 0.14 mm <sup>2</sup> |
| Wire diameter incl. insulation  | 1 mm ±0.03 mm            |
| External cable diameter         | 9.90 mm ±0.4 mm          |
| Outer sheath, material          | Semi-rigid PVC           |
| External sheath, color          | gray                     |

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|                                               |                                                                              |
|-----------------------------------------------|------------------------------------------------------------------------------|
| Conductor material                            | Tin-plated Cu litz wires                                                     |
| Cable resistance                              | $\leq 145 \Omega/\text{km}$ (20 °C)                                          |
| Insulation resistance                         | $\geq 20 \text{ M}\Omega \cdot \text{km}$ (20 °C)                            |
| Smallest bending radius, fixed installation   | 82 mm                                                                        |
| Smallest bending radius, movable installation | 155 mm                                                                       |
| Dynamic load capacity (bending)               | Max. bending cycles: 5000 (at a radius of $\geq 15 \times$ 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)                                |
| Cable type                                    | Cable for one module                                                         |

Color code: Single-core wire

|              |                                  |
|--------------|----------------------------------|
| black        | Fujitsu40 (A1) = IDC/FLK50 (47)  |
| brown        | Fujitsu40 (B1) = IDC/FLK50 (37)  |
| red          | Fujitsu40 (A2) = IDC/FLK50 (35)  |
| orange       | Fujitsu40 (B2) = IDC/FLK50 (25)  |
| yellow       | Fujitsu40 (A3) = IDC/FLK50 (46)  |
| green        | Fujitsu40 (B3) = IDC/FLK50 (45)  |
| blue         | Fujitsu40 (A4) = IDC/FLK50 (44)  |
| violet       | Fujitsu40 (B4) = IDC/FLK50 (43)  |
| gray         | Fujitsu40 (A5) = IDC/FLK50 (42)  |
| white        | Fujitsu40 (B5) = IDC/FLK50 (41)  |
| white-black  | Fujitsu40 (A6) = IDC/FLK50 (40)  |
| white-brown  | Fujitsu40 (B6) = IDC/FLK50 (39)  |
| white-red    | Fujitsu40 (A7) = IDC/FLK50 (34)  |
| white-orange | Fujitsu40 (B7) = IDC/FLK50 (33)  |
| white-yellow | Fujitsu40 (A8) = IDC/FLK50 (32)  |
| white-green  | Fujitsu40 (B8) = IDC/FLK50 (31)  |
| white-blue   | Fujitsu40 (A9) = IDC/FLK50 (30)  |
| white-violet | Fujitsu40 (B9) = IDC/FLK50 (29)  |
| white-gray   | Fujitsu40 (A10) = IDC/FLK50 (28) |
| brown-black  | Fujitsu40 (B10) = IDC/FLK50 (27) |
| brown-red    | Fujitsu40 (A11) = IDC/FLK50 (23) |
| brown-orange | Fujitsu40 (B11) = IDC/FLK50 (13) |
| brown-yellow | Fujitsu40 (A12) = IDC/FLK50 (11) |
| brown-green  | Fujitsu40 (B12) = IDC/FLK50 (1)  |
| brown-blue   | Fujitsu40 (A13) = IDC/FLK50 (22) |
| brown-violet | Fujitsu40 (B13) = IDC/FLK50 (21) |
| brown-gray   | Fujitsu40 (A14) = IDC/FLK50 (20) |

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

## 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

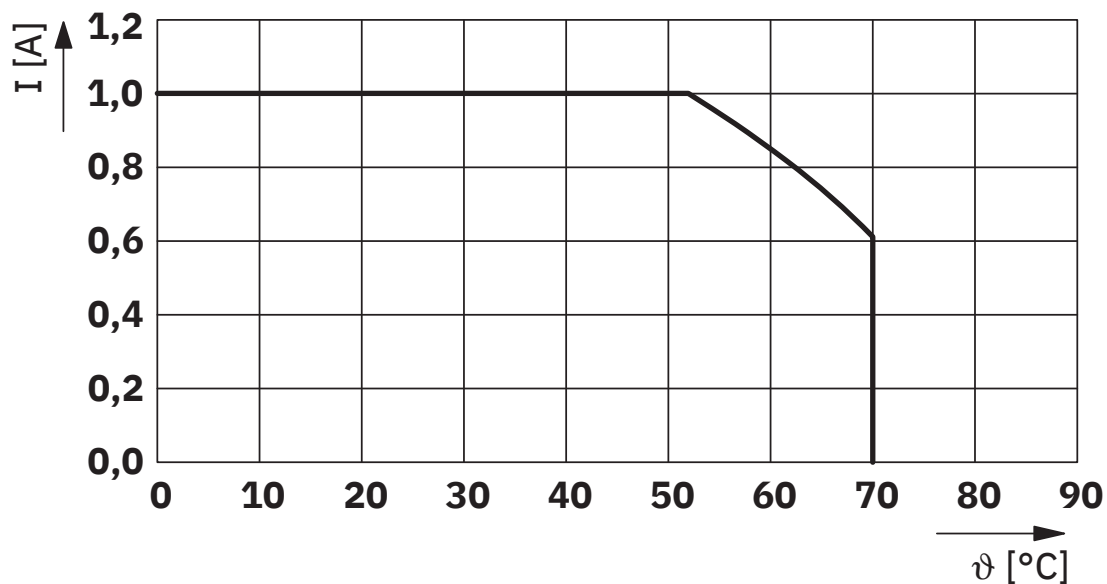
|                                  |                              |
|----------------------------------|------------------------------|
| Connection in acc. with standard | IEC 60603-13 (in compliance) |
| Connection method                | IDC/FLK socket strip         |
| Number of connections            | 1                            |
| Number of positions              | 50                           |
| Insertion/withdrawal cycles      | > 50                         |
| 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. |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Drawings

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/2321664>



**EAC**

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

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27242220 |
| ECLASS-15.0 | 27242220 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC000237 |
|----------|----------|

### 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                                | f75e269d-c01e-49f8-af0a-66de9062d689 |

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