

CABLE-FCN40/4X14/15,0M/M340 - Cable



2903749

<https://www.phoenixcontact.com/us/products/2903749>

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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 (4x 14-position); cable length: 15 m

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2903749 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Product key | DK226F |
| GTIN | 4046356762076 |
| Weight per piece (including packing) | 3,027.6 g |
| Weight per piece (excluding packing) | 3,027.6 g |
| 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 | 15 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 |

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| | |
|---|---|
| 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 | X1 (B20) = X2 (1) |
| brown | X1 (A20) = X2 (2) |
| red | X1 (B19) = X2 (3) |
| orange | X1 (A19) = X2 (4) |
| yellow | X1 (B18) = X2 (5) |
| green | X1 (A18) = X2 (6) |
| blue | X1 (B17) = X2 (7) |
| violet | X1 (A17) = X2 (8) |
| gray | X1 (B12) = X2 (9) |
| white | X1 (A12) = X2 (10) |
| black | X1 (B16) = X3 (1) |
| brown | X1 (A16) = X3 (2) |
| red | X1 (B15) = X3 (3) |
| orange | X1 (A15) = X3 (4) |
| yellow | X1 (B14) = X3 (5) |
| green | X1 (A14) = X3 (6) |
| blue | X1 (B13) = X3 (7) |
| violet | X1 (A13) = X3 (8) |
| gray | X1 (B11) = X3 (9) |
| white | X1 (A11) = X3 (10) |
| black | X1 (B10) = X4 (1) |
| brown | X1 (A10) = X4 (2) |
| red | X1 (B9) = X4 (3) |
| orange | X1 (A9) = X4 (4) |
| yellow | X1 (B8) = X4 (5) |
| green | X1 (A8) = X4 (6) |
| blue | X1 (B7) = X4 (7) |
| violet | X1 (A7) = X4 (8) |

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| | |
|--------|-------------------|
| gray | X1 (B2) = X4 (9) |
| white | X1 (A2) = X4 (10) |
| black | X1 (B6) = X5 (1) |
| brown | X1 (A6) = X5 (2) |
| red | X1 (B5) = X5 (3) |
| orange | X1 (A5) = X5 (4) |
| yellow | X1 (B4) = X5 (5) |
| green | X1 (A4) = X5 (6) |
| blue | X1 (B3) = X5 (7) |
| violet | X1 (A3) = X5 (8) |
| gray | X1 (B1) = X5 (9) |
| white | X1 (A1) = X5 (10) |

Connection data

X1

| | |
|-----------------------------|-------------------|
| Connection method | Fujitsu connector |
| Type | FCN 367 |
| Number of connections | 1 |
| Number of positions | 40 |
| Insertion/withdrawal cycles | > 50 |
| Pitch | 2.54 mm |

X2 ... X5

| | |
|----------------------------------|------------------------------|
| 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 |
| 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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Classifications

ECLASS

ECLASS-13.0

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 | 11bd4265-b396-44e4-8193-8706fac0fd97 |

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