

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



2903505

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

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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: 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                             |

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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: 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 |

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## 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 <sup>2</sup>                      |
| 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) |

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|        |                                   |
|--------|-----------------------------------|
| 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                         |

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|       |         |
|-------|---------|
| 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. |
|--------------------|--|

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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              |  |

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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/2903505>



**EAC**

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

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## Classifications

### ECLASS

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

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | 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                                | 0ede557b-379c-4b5a-bfb8-39e667f90d47 |

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