

## Cable - CABLE-FCN40/1X50/ 4,0M/IM/MEL - 2903472

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Round cable set for Mitsubishi Electric MELSEC L, MELSEC Q with 1 x Fujitsu connector (40-position) on 1 x IDC/FLK socket strip (50-position), Cable length: 4 m



RoHS

### Key Commercial Data

|                      |          |
|----------------------|----------|
| Packing unit         | 1 STK    |
| Custom tariff number | 85444290 |
| Country of origin    | Germany  |

### Technical data

#### General

|   |                      |
|---|----------------------|
| Nominal voltage $U_N$                         | < 50 V AC            |
|   | 60 V DC              |
| Max. current carrying capacity per path       | 1 A                  |
| Max. total current of all branches            | 2 A                  |
| Max. conductor resistance                     | 0.16 $\Omega$ /m     |
| Length of cable                               | 4 m                  |
| Single wire, cross section                    | 0.14 mm <sup>2</sup> |
| Single wire, cross section [AWG]              | 26                   |
| Conductor construction: Number of litz wires: | 7                    |
| Single wire, material                         | Cu tin-plated        |
| External diameter                             | 10 mm                |
| Shielding                                     | no                   |
| Outer sheath, material                        | PVC                  |
| External sheath, color                        | RAL7035              |

#### Environmental conditions

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### Technical data

#### Environmental conditions

|   |                                    |
|---|------------------------------------|
| Ambient temperature (operation)         | -20 °C ... 50 °C                   |
| Ambient temperature (storage/transport) | -20 °C ... 70 °C                   |
| Flame resistance                        | IEC 60332-1                        |
|   | DIN VDE 0482 Part 332-1            |
| Resistance to oil                       | DIN VDE 0472 Part 803, test type B |
| Gasoline resistance                     | Against occasional splashes        |

#### Connector, module side

|                       |                      |
|-----------------------|----------------------|
| Connection name       | Field level          |
| Connection method     | IDC/FLK socket strip |
| Number of connections | 1                    |
| Number of positions   | 50                   |
| Pitch                 | 2.54 mm              |

#### Connector, controller side

|                       |                   |
|-----------------------|-------------------|
| Connection name       | Controller level  |
| Connection method     | Fujitsu connector |
| Number of connections | 1                 |
| Number of positions   | 40                |

#### Supported controller

|                     |                     |
|---------------------|---------------------|
| Controller          | MITSUBISHI MELSEC Q |
| - suitable I/O card | QX41                |
|                     | QX41-S1             |
|                     | QX42                |
|                     | QX42-S1             |
|                     | QX71                |
|                     | QX72                |
|                     | QY41P               |
|                     | QY42P               |
|                     | QY71                |
|                     | QH42P               |
|                     | QY82P               |
| Controller          | MITSUBISHI MELSEC L |
| - suitable I/O card | LX41C4              |
|                     | LX42C4              |
|                     | LY41NT1P            |
|                     | LY42NT1P            |
|                     | LY41PT1P            |

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### Technical data

#### Supported controller

|                     |                           |
|---------------------|---------------------------|
|                     | LY42PT1P                  |
| Controller          | Honeywell MasterLogic 200 |
| - suitable I/O card | 2MLQ-TR4A                 |
|                     | 2MLQ-TR8A                 |
|                     | 2MLQ-TR4B                 |
|                     | 2MLQ-TR8B                 |

#### Standards and Regulations

|                   |                                    |
|-------------------|------------------------------------|
| Resistance to oil | DIN VDE 0472 Part 803, test type B |
| Flame resistance  | IEC 60332-1                        |
|                   | DIN VDE 0482 Part 332-1            |

#### Color code

|   |   |
|---|---|
| Connector 1 = connector 2 (optional) = wire color | Fujitsu40 (A1) = IDC/FLK50 (11) = black         |
|   | Fujitsu40 (B1) = IDC/FLK50 (1) = brown          |
|   | Fujitsu40 (A2) = IDC/FLK50 (48) = red           |
|   | Fujitsu40 (B2) = IDC/FLK50 (38) = orange        |
|   | Fujitsu40 (A5) = IDC/FLK50 (46) = yellow        |
|   | Fujitsu40 (B5) = IDC/FLK50 (22) = green         |
|   | Fujitsu40 (A6) = IDC/FLK50 (45) = blue          |
|   | Fujitsu40 (B6) = IDC/FLK50 (21) = violet        |
|   | Fujitsu40 (A7) = IDC/FLK50 (44) = gray          |
|   | Fujitsu40 (B7) = IDC/FLK50 (20) = white         |
|   | Fujitsu40 (A8) = IDC/FLK50 (43) = white-black   |
|   | Fujitsu40 (B8) = IDC/FLK50 (19) = white-brown   |
|   | Fujitsu40 (A9) = IDC/FLK50 (42) = white-red     |
|   | Fujitsu40 (B9) = IDC/FLK50 (18) = white-orange  |
|   | Fujitsu40 (A10) = IDC/FLK50 (41) = white-yellow |
|   | Fujitsu40 (B10) = IDC/FLK50 (17) = white-green  |
|   | Fujitsu40 (A11) = IDC/FLK50 (40) = white-blue   |
|   | Fujitsu40 (B11) = IDC/FLK50 (16) = white-violet |
|   | Fujitsu40 (A12) = IDC/FLK50 (39) = white-gray   |
|   | Fujitsu40 (B12) = IDC/FLK50 (15) = brown-black  |
|   | Fujitsu40 (A13) = IDC/FLK50 (34) = brown-red    |
|   | Fujitsu40 (B13) = IDC/FLK50 (10) = brown-orange |
|   | Fujitsu40 (A14) = IDC/FLK50 (33) = brown-yellow |
|   | Fujitsu40 (B14) = IDC/FLK50 (9) = brown-green   |
|   | Fujitsu40 (A15) = IDC/FLK50 (32) = brown-blue   |

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## Technical data

### Color code

|  |  |
|--|--|
|  | Fujitsu40 (B15) = IDC/FLK50 (8) = brown-violet |
|  | Fujitsu40 (A16) = IDC/FLK50 (31) = brown-gray  |
|  | Fujitsu40 (B16) = IDC/FLK50 (7) = brown-white  |
|  | Fujitsu40 (A17) = IDC/FLK50 (30) = green-black |
|  | Fujitsu40 (B17) = IDC/FLK50 (6) = green-brown  |
|  | Fujitsu40 (A18) = IDC/FLK50 (29) = green-red   |
|  | Fujitsu40 (B18) = IDC/FLK50 (5) = green-orange |
|  | Fujitsu40 (A19) = IDC/FLK50 (28) = green-blue  |
|  | Fujitsu40 (B19) = IDC/FLK50 (4) = green-violet |
|  | Fujitsu40 (A20) = IDC/FLK50 (27) = green-gray  |
|  | Fujitsu40 (B20) = IDC/FLK50 (3) = green-white  |

## Drawings

### Connection diagram

| Fujitsu<br>FCN 40 | FLK 50 | Fujitsu<br>FCN 40 | FLK 50 |
|-------------------|--------|-------------------|--------|
| PIN A1            | PIN 11 | PIN B16           | PIN 7  |
| PIN B1            | PIN 1  | PIN A17           | PIN 30 |
| PIN A2            | PIN 48 | PIN B17           | PIN 6  |
| PIN B2            | PIN 38 | PIN A18           | PIN 29 |
| PIN A3            |        | PIN B18           | PIN 5  |
| PIN B3            |        | PIN A19           | PIN 28 |
| PIN A4            |        | PIN B19           | PIN 4  |
| PIN B4            |        | PIN A20           | PIN 27 |
| PIN A5            | PIN 46 | PIN B20           | PIN 3  |
| PIN B5            | PIN 22 |                   | PIN 2  |
| PIN A6            | PIN 45 |                   | PIN 13 |
| PIN B6            | PIN 21 |                   | PIN 12 |
| PIN A7            | PIN 44 |                   | PIN 23 |
| PIN B7            | PIN 20 |                   | PIN 14 |
| PIN A8            | PIN 43 |                   | PIN 25 |
| PIN B8            | PIN 19 |                   | PIN 24 |
| PIN A9            | PIN 42 |                   | PIN 35 |
| PIN B9            | PIN 18 |                   | PIN 26 |
| PIN A10           | PIN 41 |                   | PIN 37 |
| PIN B10           | PIN 17 |                   | PIN 36 |
| PIN A11           | PIN 40 |                   | PIN 47 |
| PIN B11           | PIN 16 |                   |        |
| PIN A12           | PIN 39 |                   |        |
| PIN B12           | PIN 15 |                   |        |
| PIN A13           | PIN 34 |                   |        |
| PIN B13           | PIN 10 |                   |        |
| PIN A14           | PIN 33 |                   |        |
| PIN B14           | PIN 9  |                   |        |
| PIN A15           | PIN 32 |                   |        |
| PIN B15           | PIN 8  |                   |        |
| PIN A16           | PIN 31 |                   |        |

## Classifications

eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27060306 |
|------------|----------|

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### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.1 | 27060306 |
| eCl@ss 5.0 | 27061801 |
| eCl@ss 6.0 | 27249205 |
| eCl@ss 7.0 | 27249205 |
| eCl@ss 8.0 | 27249205 |
| eCl@ss 9.0 | 27242220 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000237 |
| ETIM 3.0 | EC000237 |
| ETIM 4.0 | EC000237 |
| ETIM 5.0 | EC000237 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 26121620 |
| UNSPSC 7.0901 | 26121620 |
| UNSPSC 11     | 26121620 |
| UNSPSC 12.01  | 26121620 |
| UNSPSC 13.2   | 26121620 |

### Approvals

#### Approvals

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#### Approvals

EAC / UL Listed / cUL Listed / cULus Listed


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#### Ex Approvals

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#### Approval details

|                         |
|-------------------------|
| EAC RU C-DE.A*30.B00767 |
|-------------------------|

|   |
|---|
| UL Listed  <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> FILE E 238705 |
|---|

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### Approvals

cUL Listed  <http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm> FILE E 238705

cULus Listed 