

## Cable - CABLE-FCN40/4X14/ 4,0M/IM/MEL - 2903506

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Round cable set for Mitsubishi Electric MELSEC L, MELSEC Q with 1 x Fujitsu connector (40-position) on 4 x IDC/FLK socket strip (14-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        |
| Shielding                                     | no                   |
| Outer sheath, material                        | PVC                  |
| External sheath, color                        | RAL7035              |

#### Environmental conditions

|                                 |                  |
|---------------------------------|------------------|
| Ambient temperature (operation) | -20 °C ... 50 °C |
|---------------------------------|------------------|

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### Technical data

#### Environmental conditions

|                                         |                                    |
|-----------------------------------------|------------------------------------|
| 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 | 4                    |
| Number of positions   | 14                   |
| 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                   |
|                     | QY41P                     |
|                     | QY42P                     |
|                     | QH42P                     |
|                     | QY82P                     |
| Controller          | MITSUBISHI MELSEC L       |
| - suitable I/O card | LX41C4                    |
|                     | LX42C4                    |
|                     | LY41NT1P                  |
|                     | LY42NT1P                  |
|                     | LY41PT1P                  |
|                     | LY42PT1P                  |
| Controller          | Honeywell MasterLogic 200 |
| - suitable I/O card | 2MLQ-TR4A                 |
|                     | 2MLQ-TR8A                 |

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### Technical data

#### Supported controller

|  |           |
|--|-----------|
|  | 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 (B20) = IDC/FLK14-1 (1) = black  |
|                                                   | Fujitsu40 (B19) = IDC/FLK14-1 (2) = brown  |
|                                                   | Fujitsu40 (B18) = IDC/FLK14-1 (3) = red    |
|                                                   | Fujitsu40 (B17) = IDC/FLK14-1 (4) = orange |
|                                                   | Fujitsu40 (B16) = IDC/FLK14-1 (5) = yellow |
|                                                   | Fujitsu40 (B15) = IDC/FLK14-1 (6) = green  |
|                                                   | Fujitsu40 (B14) = IDC/FLK14-1 (7) = blue   |
|                                                   | Fujitsu40 (B13) = IDC/FLK14-1 (8) = violet |
|                                                   | Fujitsu40 (B1) = IDC/FLK14-1 (9) = gray    |
|                                                   | Fujitsu40 (A1) = IDC/FLK14-1 (10) = white  |
|                                                   | Fujitsu40 (B12) = IDC/FLK14-2 (1) = black  |
|                                                   | Fujitsu40 (B11) = IDC/FLK14-2 (2) = brown  |
|                                                   | Fujitsu40 (B10) = IDC/FLK14-2 (3) = red    |
|                                                   | Fujitsu40 (B9) = IDC/FLK14-2 (4) = orange  |
|                                                   | Fujitsu40 (B8) = IDC/FLK14-2 (5) = yellow  |
|                                                   | Fujitsu40 (B7) = IDC/FLK14-2 (6) = green   |
|                                                   | Fujitsu40 (B6) = IDC/FLK14-2 (7) = blue    |
|                                                   | Fujitsu40 (B5) = IDC/FLK14-2 (8) = violet  |
|                                                   | Fujitsu40 (B1) = IDC/FLK14-2 (9) = gray    |
|                                                   | Fujitsu40 (A1) = IDC/FLK14-2 (10) = white  |
|                                                   | Fujitsu40 (A20) = IDC/FLK14-3 (1) = black  |
|                                                   | Fujitsu40 (A19) = IDC/FLK14-3 (2) = brown  |
|                                                   | Fujitsu40 (A18) = IDC/FLK14-3 (3) = red    |
|                                                   | Fujitsu40 (A17) = IDC/FLK14-3 (4) = orange |
|                                                   | Fujitsu40 (A16) = IDC/FLK14-3 (5) = yellow |
|                                                   | Fujitsu40 (A15) = IDC/FLK14-3 (6) = green  |
|                                                   | Fujitsu40 (A14) = IDC/FLK14-3 (7) = blue   |
|                                                   | Fujitsu40 (A13) = IDC/FLK14-3 (8) = violet |
|                                                   | Fujitsu40 (B2) = IDC/FLK14-3 (9) = gray    |

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### Technical data

#### Color code

|  |                                           |
|--|-------------------------------------------|
|  | Fujitsu40 (A2) = IDC/FLK14-3 (10) = white |
|  | Fujitsu40 (A12) = IDC/FLK14-4 (1) = black |
|  | Fujitsu40 (A11) = IDC/FLK14-4 (2) = brown |
|  | Fujitsu40 (A10) = IDC/FLK14-4 (3) = red   |
|  | Fujitsu40 (A9) = IDC/FLK14-4 (4) = orange |
|  | Fujitsu40 (A8) = IDC/FLK14-4 (5) = yellow |
|  | Fujitsu40 (A7) = IDC/FLK14-4 (6) = green  |
|  | Fujitsu40 (A6) = IDC/FLK14-4 (7) = blue   |
|  | Fujitsu40 (A5) = IDC/FLK14-4 (8) = violet |
|  | Fujitsu40 (B2) = IDC/FLK14-4 (9) = gray   |
|  | Fujitsu40 (A2) = IDC/FLK14-4 (10) = white |

### Drawings

## Cable - CABLE-FCN40/4X14/ 4,0M/IM/MEL - 2903506

Connection diagram

| Socket<br>strip (X1) | Double<br>assignment | Conductor<br>color | FLK 14<br>(X2)<br>Byte 0 | FLK 14<br>(X3)<br>Byte 1 | FLK 14<br>(X4)<br>Byte 2 | FLK 14<br>(X5)<br>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                    |                          |

## Classifications

eCl@ss

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

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### Classifications

#### ETIM

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

#### Approvals

EAC / UL Listed / cUL Listed / cULus Listed

#### Ex Approvals

#### 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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| cUL 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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| cULus Listed  |
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