

Cable - CABLE-FCN40/1X50/ 3,0M/IM/MEL - 2903471

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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 (1x 50-position); cable length: 3 m



Key Commercial Data

| | |
|--------------|---------------|
| Packing unit | 1 pc |
| GTIN | |
| GTIN | 4046356743372 |

Technical data

Ambient conditions

| | |
|---|--|
| Ambient temperature (operation) | -40 °C ... 70 °C (fixed installation) |
| | -10 °C ... 70 °C (flexible installation) |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C |
| Maximum altitude | ≤ 2000 m |
| Degree of protection | IP00 |
| | ≥ IP54 (Installation location) |

General

| | |
|---|----------------------|
| Max. permissible operating voltage | 25 V AC |
| | 60 V DC |
| Max. current carrying capacity per path | 1 A (50 °C) |
| | 0.6 A (70 °C) |
| Length of cable | 3 m |
| External cable diameter | 9.9 mm ±0.4 mm |
| Single wire, cross section | 0.14 mm ² |
| Single wire, cross section [AWG] | 26 |
| Single wire, number of litz wires | 7 |
| Single wire, material | Cu tin-plated |

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Technical data

General

| | |
|---|--|
| Wire diameter incl. insulation | 1 mm ±0.03 mm |
| Smallest bending radius, fixed installation | 82 mm |
| Smallest bending radius, movable installation | 155 mm |
| Bending cycles | 5000 (at a radius of ≥ 15x outside diameter) |
| Shielding | no |
| Cable insulation resistance | ≥ 20 MΩ/km (20 °C) |
| Cable resistance | ≤ 145 Ω/km (20 °C) |
| Outer sheath, material | Semi-rigid PVC |
| External sheath, color | gray |
| Nominal operating mode | 100% operating factor |

Connection data

| | |
|----------------------------------|----------------------|
| Connection name | Field level |
| Connection in acc. with standard | IEC 60603-13 |
| Connection method | IDC/FLK socket strip |
| Number of connections | 1 |
| Number of positions | 50 |
| Insertion/withdrawal cycles | > 50 |
| Pitch | 2.54 mm |

Connection data 2

| | |
|-----------------------------|-------------------|
| Connection name | Controller level |
| Connection method | Fujitsu connector |
| Number of connections | 1 |
| Number of positions | 40 |
| Insertion/withdrawal cycles | > 50 |

Standards and Regulations

| | |
|--------------------------|---------------------------------------|
| Flame resistance | UL VW-1 |
| | CSA FT-1 |
| | IEC 60332-1-2 |
| | VDE 0842, Part 332-1-2 |
| | IEC 60332-3-22 |
| Resistance to oil | against occasional splashes |
| Gasoline resistance | against occasional splashes |
| Designation | Air clearances and creepage distances |
| Standards/regulations | DIN EN 50178 |
| Rated insulation voltage | 63 V |
| Rated surge voltage | 0.6 kV |
| Insulation | Functional insulation |
| Pollution degree | 2 |
| Overvoltage category | II |

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Technical data

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

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 (A3) = |
| | Fujitsu40 (B3) = |
| | Fujitsu40 (A4) = |
| | Fujitsu40 (B4) = |
| | 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 |

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Technical data

Color code

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

Environmental Product Compliance

| | |
|------------|---|
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

Drawings

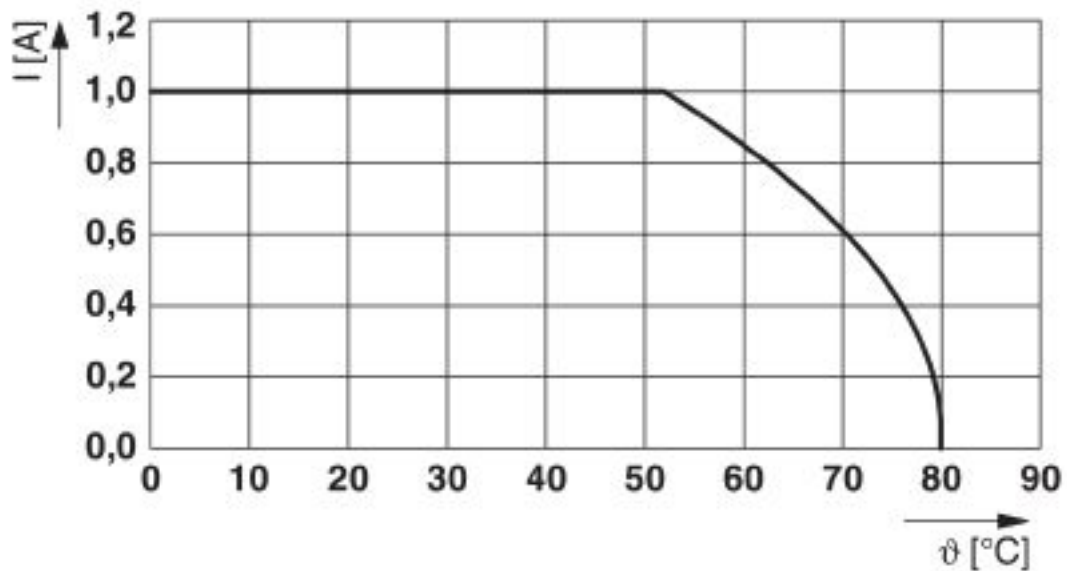
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Connection diagram

| Fujitsu FCN 40 | FLK 50 | Fujitsu 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 | | |

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Diagram



Maximum permissible current per path in uncoiled state

Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 27242220 |
| eCl@ss 4.0 | 27060300 |
| eCl@ss 4.1 | 27060300 |
| eCl@ss 5.0 | 27242200 |
| eCl@ss 5.1 | 27242200 |
| eCl@ss 6.0 | 27249200 |
| 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 |
| ETIM 6.0 | EC000237 |
| ETIM 7.0 | EC000237 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 26121620 |
| UNSPSC 7.0901 | 26121620 |
| UNSPSC 11 | 26121620 |

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Classifications

UNSPSC

| | |
|--------------|----------|
| UNSPSC 12.01 | 26121620 |
| UNSPSC 13.2 | 26121620 |
| UNSPSC 18.0 | 26121620 |
| UNSPSC 19.0 | 26121620 |
| UNSPSC 20.0 | 26121620 |
| UNSPSC 21.0 | 26121620 |

Approvals


Approvals


Approvals

UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals

Approval details

| | | | |
|--------------------|---|---|---------------|
| UL Listed |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 238705 |
| | | | |
| Nominal voltage UN | 125 V | | |
| Nominal current IN | 1 A | | |

| | | | |
|--------------------|---|---|---------------|
| cUL Listed |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 238705 |
| | | | |
| Nominal voltage UN | 125 V | | |
| Nominal current IN | 1 A | | |

| | | |
|-----|---|------------------------|
| EAC |  | RU* DE.HB*35.B00385 |
|-----|---|------------------------|

| | |
|--------------|---|
| cULus Listed |  |
|--------------|---|

Cable - CABLE-FCN40/1X50/ 3,0M/IM/MEL - 2903471

Accessories

Accessories

Marker carrier cable

Cable marker carrier - KME - 0807083



Cable marker carrier, white, unlabeled, mounting type: Assembly with cable binders, cable diameter: > 5 mm, lettering field size: 20 mm x 8 mm

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