

Cable - FLK 50/EZ-DR/D37SUB/200/X81-I - 2302667


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Round cable set; controller: Mitsubishi Electric MELSEC Q (X81); connection 1: D-SUB socket strip (1x 37-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 2 m

RoHS

Key Commercial Data

| | |
|--------------|---|
| Packing unit | 1 pc |
| GTIN |  4 017918 910303 |
| GTIN | 4017918910303 |

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 | 2 m |
| External cable diameter | 10.3 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 | 86 mm |
| Smallest bending radius, movable installation | 161 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 in acc. with standard | IEC 60807-2 |
| | DIN 41652 |
| Connection method | D-SUB socket strip |
| Screw thread | M2,5 |
| Number of connections | 1 |
| Number of positions | 37 |
| Torque | 0.2 Nm |
| Insertion/withdrawal cycles | > 200 |

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 |
| Connection in acc. with standard | CUL |
| Designation | Air clearances and creepage distances |
| Standards/regulations | DIN EN 50178 |

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Technical data

Standards and Regulations

| | |
|--------------------------|-----------------------|
| Rated insulation voltage | 63 V |
| Rated surge voltage | 0.6 kV |
| Insulation | Functional insulation |
| Pollution degree | 2 |
| Overvoltage category | II |

Supported controller

| | |
|---------------------|---------------------|
| Controller | MITSUBISHI MELSEC Q |
| - suitable I/O card | QX81 |

Color code

| | |
|---|--|
| Connector 1 = connector 2 (optional) = wire color | D-SUB37 (1) = IDC/FLK50 (3) = black |
| | D-SUB37 (20) = IDC/FLK50 (4) = brown |
| | D-SUB37 (2) = IDC/FLK50 (5) = red |
| | D-SUB37 (21) = IDC/FLK50 (6) = orange |
| | D-SUB37 (3) = IDC/FLK50 (7) = yellow |
| | D-SUB37 (22) = IDC/FLK50 (8) = green |
| | D-SUB37 (4) = IDC/FLK50 (9) = blue |
| | D-SUB37 (23) = IDC/FLK50 (10) = violet |
| | D-SUB37 (17) = IDC/FLK50 (11) = gray |
| | D-SUB37 (18) = IDC/FLK50 (12) = white |
| | D-SUB37 (5) = IDC/FLK50 (15) = white-black |
| | D-SUB37 (24) = IDC/FLK50 (16) = white-brown |
| | D-SUB37 (6) = IDC/FLK50 (17) = white-red |
| | D-SUB37 (25) = IDC/FLK50 (18) = white-orange |
| | D-SUB37 (7) = IDC/FLK50 (19) = white-yellow |
| | D-SUB37 (26) = IDC/FLK50 (20) = white-green |
| | D-SUB37 (8) = IDC/FLK50 (21) = white-blue |
| | D-SUB37 (27) = IDC/FLK50 (22) = white-violet |
| | D-SUB37 (17) = IDC/FLK50 (23) = white-gray |
| | D-SUB37 (18) = IDC/FLK50 (24) = brown-black |
| | D-SUB37 (9) = IDC/FLK50 (27) = brown-red |
| | D-SUB37 (28) = IDC/FLK50 (28) = brown-orange |
| | D-SUB37 (10) = IDC/FLK50 (29) = brown-yellow |
| | D-SUB37 (29) = IDC/FLK50 (30) = brown-green |
| | D-SUB37 (11) = IDC/FLK50 (31) = brown-blue |
| | D-SUB37 (30) = IDC/FLK50 (32) = brown-violet |
| | D-SUB37 (12) = IDC/FLK50 (33) = brown-gray |
| | D-SUB37 (31) = IDC/FLK50 (34) = brown-white |
| | D-SUB37 (17) = IDC/FLK50 (35) = green-black |
| | D-SUB37 (18) = IDC/FLK50 (36) = green-brown |
| | D-SUB37 (13) = IDC/FLK50 (39) = green-red |

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Technical data

Color code

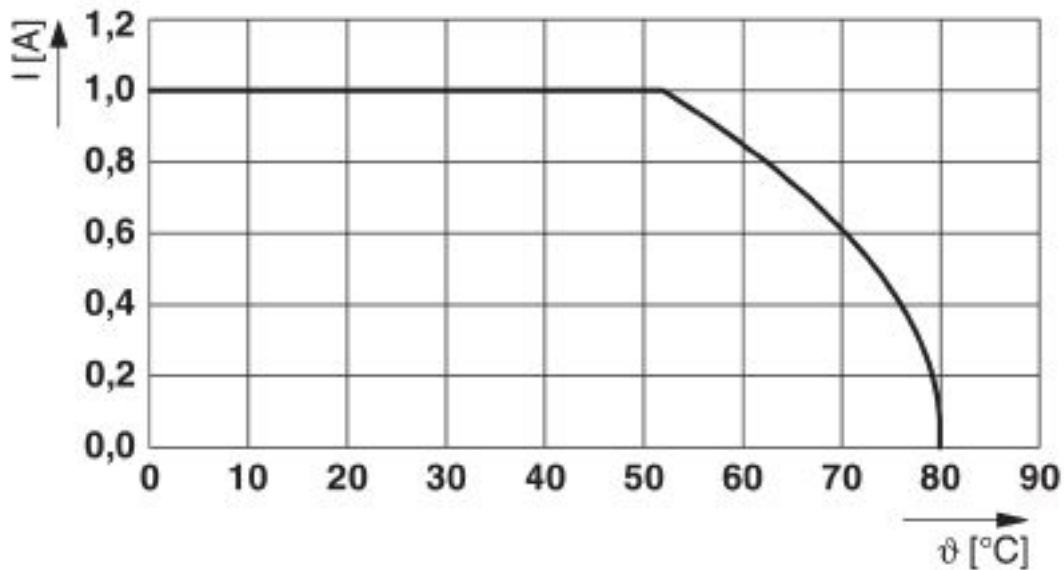
| | |
|--|---|
| | D-SUB37 (32) = IDC/FLK50 (40) = green-orange |
| | D-SUB37 (14) = IDC/FLK50 (41) = green-blue |
| | D-SUB37 (33) = IDC/FLK50 (42) = green-violet |
| | D-SUB37 (15) = IDC/FLK50 (43) = green-gray |
| | D-SUB37 (34) = IDC/FLK50 (44) = green-white |
| | D-SUB37 (16) = IDC/FLK50 (45) = yellow-black |
| | D-SUB37 (35) = IDC/FLK50 (46) = yellow-brown |
| | D-SUB37 (36) = IDC/FLK50 (47) = yellow-red |
| | D-SUB37 (36) = IDC/FLK50 (48) = yellow-orange |

Environmental Product Compliance

| | |
|------------|---|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

Drawings

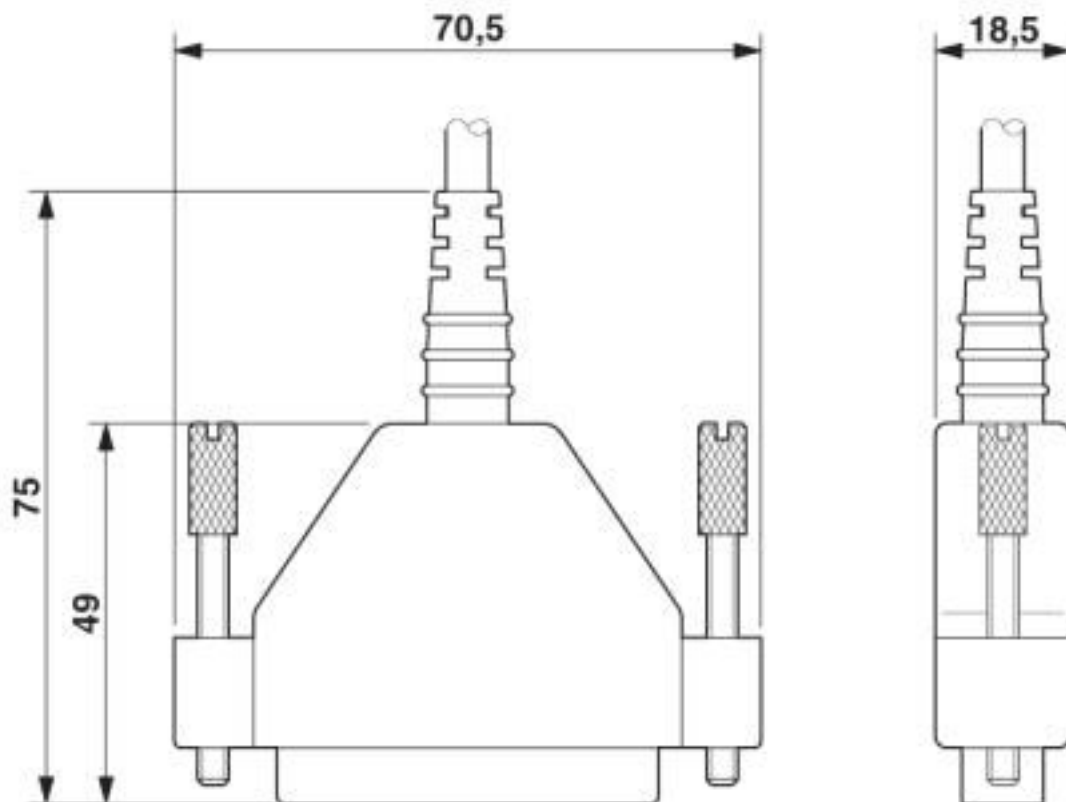
Diagram



Maximum permissible current per path in uncoiled state

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Dimensional drawing



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 |

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Classifications

UNSPSC

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

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Approvals

cULus Listed



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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