# CABLE-D37-M2,5/4X14/100/Y81P-O - Cable

2302489

https://www.phoenixcontact.com/us/products/2302489

**PHŒNIX CONTACT**

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Round cable set; controller: Mitsubishi Electric MELSEC Q (Y81P); connection 1: D-SUB socket strip (1x 37-position); connection 2: IDC/FLK socket strip (4x 14-position); cable length: 1 m

## Commercial data

| | |
|---|---|
| Item number | 2302489 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | C421 |
| Product key | CK2143 |
| Catalog page | Page 482 (C-5-2019) |
| GTIN | 4017918906764 |
| Weight per piece (including packing) | 389.2 g |
| Weight per piece (excluding packing) | 378.3 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) | -40 °C ... 70 °C (fixed 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 | QY81P |

### Cable/line

| | |
|---|---|
| Cable length | 1 m |

14X0.14 [PVC]

| | |
|---|---|
| UL AWM Style | 2464/1061 |
| Number of positions | 14 |
| Shielded | no |
| Cable type | 14X0.14 [PVC] |
| Conductor type | Round cable set |
| Conductor structure signal line | 7x 0.16 mm |
| AWG signal line | 26 |
| Conductor cross section | 14x 0.14 mm² |
| Wire diameter incl. insulation | 1 mm ±0.03 mm |
| External cable diameter | 6.40 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 | 55 mm |

| | |
|---|---|
| Smallest bending radius, movable installation | 104 mm |
| Max. bending cycles | 5000 (at a radius of ≥ 15x outside diameter) |
| 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) |
| D-SUB37 (1) | IDC/FLK14-1 (1) = black |
| D-SUB37 (20) | IDC/FLK14-1 (2) = brown |
| D-SUB37 (2) | IDC/FLK14-1 (3) = red |
| D-SUB37 (21) | IDC/FLK14-1 (4) = orange |
| D-SUB37 (3) | IDC/FLK14-1 (5) = yellow |
| D-SUB37 (22) | IDC/FLK14-1 (6) = green |
| D-SUB37 (4) | IDC/FLK14-1 (7) = blue |
| D-SUB37 (23) | IDC/FLK14-1 (8) = violet |
| D-SUB37 (17) | IDC/FLK14-1 (9) = gray |
| D-SUB37 (19) | IDC/FLK14-1 (10) = white |
| D-SUB37 (18) | IDC/FLK14-1 (11) = white-black |
| D-SUB37 (36) | IDC/FLK14-1 (13) = white-brown |
| D-SUB37 (5) | IDC/FLK14-2 (1) = black |
| D-SUB37 (24) | IDC/FLK14-2 (2) = brown |
| D-SUB37 (6) | IDC/FLK14-2 (3) = red |
| D-SUB37 (25) | IDC/FLK14-2 (4) = orange |
| D-SUB37 (7) | IDC/FLK14-2 (5) = yellow |
| D-SUB37 (26) | IDC/FLK14-2 (6) = green |
| D-SUB37 (8) | IDC/FLK14-2 (7) = blue |
| D-SUB37 (27) | IDC/FLK14-2 (8) = violet |
| D-SUB37 (17) | IDC/FLK14-2 (9) = gray |
| D-SUB37 (19) | IDC/FLK14-2 (10) = white |
| D-SUB37 (18) | IDC/FLK14-2 (11) = white-black |
| D-SUB37 (36) | IDC/FLK14-2 (13) = white-brown |
| D-SUB37 (9) | IDC/FLK14-3 (1) = black |
| D-SUB37 (28) | IDC/FLK14-3 (2) = brown |
| D-SUB37 (10) | IDC/FLK14-3 (3) = red |
| D-SUB37 (29) | IDC/FLK14-3 (4) = orange |
| D-SUB37 (11) | IDC/FLK14-3 (5) = yellow |
| D-SUB37 (30) | IDC/FLK14-3 (6) = green |
| D-SUB37 (12) | IDC/FLK14-3 (7) = blue |
| D-SUB37 (31) | IDC/FLK14-3 (8) = violet |
| D-SUB37 (17) | IDC/FLK14-3 (9) = gray |
| D-SUB37 (37) | IDC/FLK14-3 (10) = white |
| D-SUB37 (18) | IDC/FLK14-3 (11) = white-black |

| D-SUB37 (36) | IDC/FLK14-3 (13) = white-brown |
|---|---|
| D-SUB37 (13) | IDC/FLK14-4 (1) = black |
| D-SUB37 (32) | IDC/FLK14-4 (2) = brown |
| D-SUB37 (14) | IDC/FLK14-4 (3) = red |
| D-SUB37 (33) | IDC/FLK14-4 (4) = orange |
| D-SUB37 (15) | IDC/FLK14-4 (5) = yellow |
| D-SUB37 (34) | IDC/FLK14-4 (6) = green |
| D-SUB37 (16) | IDC/FLK14-4 (7) = blue |
| D-SUB37 (35) | IDC/FLK14-4 (8) = violet |
| D-SUB37 (17) | IDC/FLK14-4 (9) = gray |
| D-SUB37 (37) | IDC/FLK14-4 (10) = white |
| D-SUB37 (18) | IDC/FLK14-4 (11) = white-black |
| D-SUB37 (36) | IDC/FLK14-4 (13) = white-brown |

## Connection data

### Connection 1

| | |
|---|---|
| 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 |
| Tightening torque | 0.2 Nm |
| Insertion/withdrawal cycles | > 200 |
| Pitch | 2.77 mm |

### Connection 2

| | |
|---|---|
| Connection in acc. with standard | based on IEC 60603-13 |
| Connection method | IDC/FLK socket strip |
| Number of connections | 4 |
| Number of positions | 14 |
| Insertion/withdrawal cycles | > 50 |
| Pitch | 2.54 mm |

## Notes

| | |
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| General | 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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## Classifications

### ECLASS

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|---|---|
| ECLASS-11.0 | 27242220 |
| ECLASS-12.0 | 27242220 |
| ECLASS-13.0 | 27242220 |

### ETIM

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|---|---|
| ETIM 9.0 | EC000237 |

### UNSPSC

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| UNSPSC 21.0 | 26121600 |

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## Environmental product compliance

| REACh SVHC | Lead 7439-92-1 |
|---|---|

| China RoHS | Environmentally Friendly Use Period = 50 years |
|---|---|
| | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |