# FLK 40/EZ-DR/ 100/SLC - Cable

2294623

https://www.phoenixcontact.com/us/products/2294623

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Round cable set; controller: Allen-Bradley SLC 500 (OB 32, IB 32); connection 1: IDC/FLK socket strip (1x 40-position); connection 2: IDC/FLK socket strip (1x 40-position); cable length: 1 m

## Your advantages

- Passive interface modules (VIP-3/SC/FLK40, etc.) are connected to the I/O cards using the system cable

## Commercial data

| | |
|---|---|
| Item number | 2294623 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | C421 |
| Product key | DK221R |
| GTIN | 4017918148997 |
| Weight per piece (including packing) | 158 g |
| Weight per piece (excluding packing) | 147 g |
| Customs tariff number | 85444290 |
| Country of origin | DE |

# 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) (fixed installation) | -40 °C ... 70 °C (fixed installation) |
| Ambient temperature (operation) (flexible 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: ALLEN-BRADLEY SLC 500

| | |
|---|---|
| Suitable I/O card | 1746 OB 32 |
| | 1746 OV 32 |
| | 1746 IB 32 |
| | 1746 IV 32 |

## Cable/line

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

### 40X0.14 [PVC]

| | |
|---|---|
| UL AWM Style | 2464/1061 |
| Number of positions | 40 |
| Shielded | no |
| Cable type | 40X0.14 [PVC] |
| Conductor type | Round cable set |
| Conductor structure signal line | 7x 0.16 mm |
| AWG signal line | 26 |
| Conductor cross-section | 40x 0.14 mm² |
| Wire diameter incl. insulation | 1 mm ±0.03 mm |
| External cable diameter | 9.90 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 | 82 mm |
| Smallest bending radius, movable installation | 155 mm |
| Dynamic load capacity (bending) | 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) |
| Cable type | Cable for one module |

Color code: Single-core wire

| | |
|---|---|
| black | IDC/FLK40 (1) = IDC/FLK40 (1) |
| brown | IDC/FLK40 (2) = IDC/FLK40 (2) |
| red | IDC/FLK40 (3) = IDC/FLK40 (3) |
| orange | IDC/FLK40 (4) = IDC/FLK40 (4) |
| yellow | IDC/FLK40 (5) = IDC/FLK40 (5) |
| green | IDC/FLK40 (6) = IDC/FLK40 (6) |
| blue | IDC/FLK40 (7) = IDC/FLK40 (7) |
| violet | IDC/FLK40 (8) = IDC/FLK40 (8) |
| gray | IDC/FLK40 (9) = IDC/FLK40 (9) |
| white | IDC/FLK40 (10) = IDC/FLK40 (10) |
| white-black | IDC/FLK40 (11) = IDC/FLK40 (11) |
| white-brown | IDC/FLK40 (12) = IDC/FLK40 (12) |
| white-red | IDC/FLK40 (13) = IDC/FLK40 (13) |
| white-orange | IDC/FLK40 (14) = IDC/FLK40 (14) |
| white-yellow | IDC/FLK40 (15) = IDC/FLK40 (15) |
| white-green | IDC/FLK40 (16) = IDC/FLK40 (16) |
| white-blue | IDC/FLK40 (17) = IDC/FLK40 (17) |
| white-violet | IDC/FLK40 (18) = IDC/FLK40 (18) |
| white-gray | IDC/FLK40 (19) = IDC/FLK40 (19) |
| brown-black | IDC/FLK40 (20) = IDC/FLK40 (20) |
| brown-red | IDC/FLK40 (21) = IDC/FLK40 (21) |
| brown-orange | IDC/FLK40 (22) = IDC/FLK40 (22) |
| brown-yellow | IDC/FLK40 (23) = IDC/FLK40 (23) |
| brown-green | IDC/FLK40 (24) = IDC/FLK40 (24) |
| brown-blue | IDC/FLK40 (25) = IDC/FLK40 (25) |
| brown-violet | IDC/FLK40 (26) = IDC/FLK40 (26) |
| brown-gray | IDC/FLK40 (27) = IDC/FLK40 (27) |
| brown-white | IDC/FLK40 (28) = IDC/FLK40 (28) |

| | |
|---|---|
| green-black | IDC/FLK40 (29) = IDC/FLK40 (29) |
| green-brown | IDC/FLK40 (30) = IDC/FLK40 (30) |
| green-red | IDC/FLK40 (31) = IDC/FLK40 (31) |
| green-orange | IDC/FLK40 (32) = IDC/FLK40 (32) |
| green-blue | IDC/FLK40 (33) = IDC/FLK40 (33) |
| green-violet | IDC/FLK40 (34) = IDC/FLK40 (34) |
| green-gray | IDC/FLK40 (35) = IDC/FLK40 (35) |
| green-white | IDC/FLK40 (36) = IDC/FLK40 (36) |
| yellow-black | IDC/FLK40 (37) = IDC/FLK40 (37) |
| yellow-brown | IDC/FLK40 (38) = IDC/FLK40 (38) |
| yellow-red | IDC/FLK40 (39) = IDC/FLK40 (39) |
| yellow-orange | IDC/FLK40 (40) = IDC/FLK40 (40) |

## Connection data

### Connection 1

| | |
|---|---|
| Connection in acc. with standard | IEC 60603-13 (in compliance) |
| Connection method | IDC/FLK socket strip |
| Number of connections | 1 |
| Number of positions | 40 |
| Insertion/withdrawal cycles | > 50 |
| Pitch | 2.54 mm |

### Connection 2

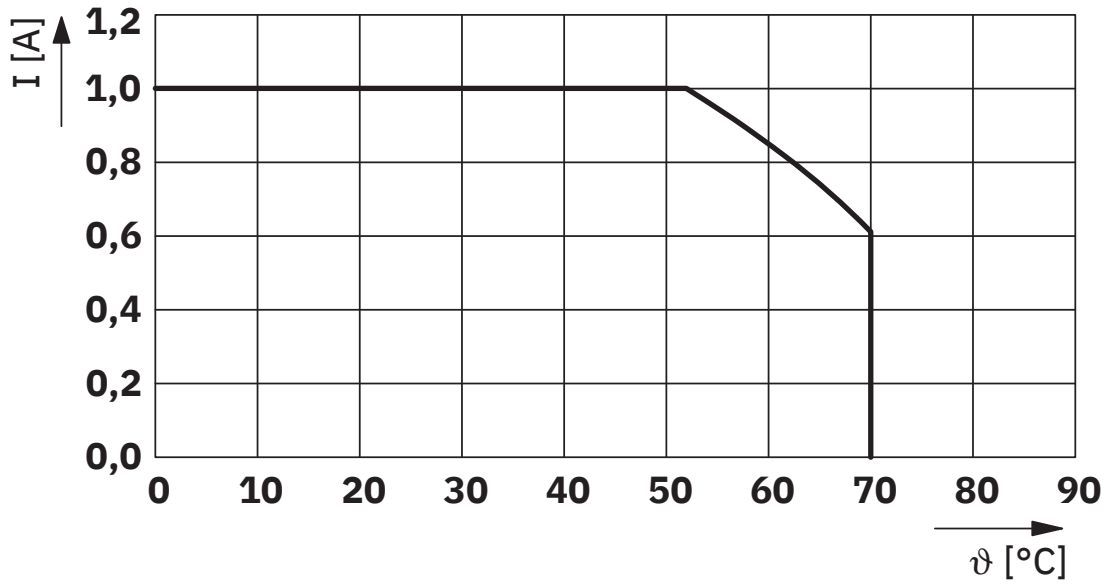
| | |
|---|---|
| Connection in acc. with standard | IEC 60603-13 (in compliance) |
| Connection method | IDC/FLK socket strip |
| Number of connections | 1 |
| Number of positions | 40 |
| Insertion/withdrawal cycles | > 50 |
| Pitch | 2.54 mm |

## Notes

| | |
|---|---|
| Notes on operation | 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. |

## Drawings

Diagram




Maximum permissible current per path in uncoiled state

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2294623

**EAC**
Approval ID: RU*-DE.HB*35.B00385

**UL Listed**
Approval ID: E238705

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 125 V | 1 A | - | - |

**cUL Listed**
Approval ID: E238705

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 125 V | 1 A | - | - |

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27242220 |
| ECLASS-15.0 | 27242220 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC000237 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 26121600 |

## Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |

China RoHS

| | |
|---|---|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|---|---|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |

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