# FLK 14/EZ-DR/ 300/KONFEK - Cable

2288956

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Round cable set; connection 1: IDC/FLK socket strip (1x 14-position); connection 2: IDC/FLK socket strip (1x 14-position); cable length: 3 m

## Commercial data

| | |
|---|---|
| Item number | 2288956 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | C421 |
| Product key | DK2211 |
| GTIN | 4017918057343 |
| Weight per piece (including packing) | 182.3 g |
| Weight per piece (excluding packing) | 168 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: SIEMENS S7-1500

| | |
|---|---|
| Suitable I/O card | 6ES7521-1BH00-0AB0 |
| | 6ES7521-1BH10-0AA0 |
| | 6ES7521-1BH50-0AA0 |
| | 6ES7521-1BL00-0AB0 |
| | 6ES7522-1BH00-0AB0 |
| | 6ES7522-1BH01-0AB0 |
| | 6ES7522-1BH10-0AA0 |
| | 6ES7522-1BL00-0AB0 |
| | 6ES7522-1BL01-0AB0 |
| | 6ES7531-7KF00-0AB0 |
| | 6ES7531-7LH00-0AB0 |
| | 6ES7531-7MH00-0AB0 |
| | 6ES7531-7NF00-0AB0 |
| | 6ES7531-7NF10-0AB0 |
| | 6ES7531-7PF00-0AB0 |
| | 6ES7532-5HF00-0AB0 |
| | 6ES7532-5HD00-0AB0 |
| | 6ES7532-5ND00-0AB0 |

### Supported controller: SIEMENS S7-300 / ET 200 M

| | |
|---|---|
| Suitable I/O card | CPU 312C |
| | CPU 313C |

| | |
|---|---|
| | CPU 313C-2DP |
| | CPU 313C-2PtP |
| | CPU 314C-2DP |
| | CPU 314C-2PtP |
| | 6ES7321-1BH02-0AA0 |
| | 6ES7321-1BH10-0AA0 |
| | 6ES7321-1BH50-0AA0 |
| | 6ES7321-1BL00-0AA0 |
| | 6ES7321-7BH01-0AB0 |
| | 6ES7322-1BH01-0AA0 |
| | 6ES7322-1BH10-0AA0 |
| | 6ES7322-1BL00-0AA0 |
| | 6ES7322-8BF00-0AB0 |
| | 6ES7322-8BH01-0AB0 |
| | 6ES7323-1BH01-0AA0 |
| | 6ES7323-1BL00-0AA0 |
| | 6ES7331-7HF01-0AB0 |
| | 6ES7331-7KB02-0AB0 |
| | 6ES7331-7KF02-0AB0 |
| | 6ES7331-7NF00-0AB0 |
| | 6ES7331-7PF01-0AB0 |
| | 6ES7331-7PF11-0AB0 |
| | 6ES7332-5HD01-0AB0 |
| | 6ES7332-5HB01-0AB0 |
| | 6ES7332-7ND02-0AB0 |
| | 6ES7332-8TF01-0AB0 |
| | 6ES7334-0CE01-0AA0 |
| | 6ES7334-0KE00-0AB0 |
| | 6ES7335-7HG01-0AB0 |
| | 6ES7336-4GE00-0AB0 |
| | 6ES7338-4BC01-0AB0 |
| | 6ES7350-1AH03-0AE0 |
| | 6ES7350-2AH01-0AE0 |
| | 6ES7351-1AH01-0AE0 |
| | 6ES7352-1AH02-0AE0 |
| | 6ES7353-1AH01-0AE0 |
| | 6ES7354-1AH01-0AE0 |
| | 6ES7355-0VH10-0AE0 |
| | 6ES7355-1VH10-0AE0 |
| | 6ES7357-4AH01-0AE0 |

Supported controller: ALLEN-BRADLEY ControlLogix

| | |
|---|---|
| Suitable I/O card | 1756-IN16 |
| | 1756-IA8D |

| | |
|---|---|
| | 1756-IA16 |
| | 1756-IB16 |
| | 1756-IC16 |
| | 1756-OB16E |
| | 1756-IR6I |
| | 1756-IT6I |
| | 1756-OF4 |
| | 1756-OF6CI |
| | 1756-OF8 |
| | 1756-PLS |

Supported controller: HONEYWELL Experion PKS C200

| | |
|---|---|
| Suitable I/O card | TC-IDX 081 |
| | TC-IDA 161 |
| | TC-IAH 061 |
| | TC-IXR 061 |
| | TC-IXL 061 |
| | TC-OAH 061 |
| | TC-OAV 061 |
| | TC-OAV 081 |

Supported controller: SCHNEIDER ELECTRIC Modicon TSX QUANTUM

| | |
|---|---|
| Suitable I/O card | DDI 353 |
| | DDI 853 |
| | DAI 453 |
| | DDO 353 |

## Cable/line

| | |
|---|---|
| Cable length | 3 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 |
| 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/FLK14 (1) = IDC/FLK14 (1) |
| brown | IDC/FLK14 (2) = IDC/FLK14 (2) |
| red | IDC/FLK14 (3) = IDC/FLK14 (3) |
| orange | IDC/FLK14 (4) = IDC/FLK14 (4) |
| yellow | IDC/FLK14 (5) = IDC/FLK14 (5) |
| green | IDC/FLK14 (6) = IDC/FLK14 (6) |
| blue | IDC/FLK14 (7) = IDC/FLK14 (7) |
| violet | IDC/FLK14 (8) = IDC/FLK14 (8) |
| gray | IDC/FLK14 (9) = IDC/FLK14 (9) |
| white | IDC/FLK14 (10) = IDC/FLK14 (10) |
| white-black | IDC/FLK14 (11) = IDC/FLK14 (11) |
| white-brown | IDC/FLK14 (12) = IDC/FLK14 (12) |
| white-red | IDC/FLK14 (13) = IDC/FLK14 (13) |
| white-orange | IDC/FLK14 (14) = IDC/FLK14 (14) |

## 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 | 14 |
| 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 | 14 |
| Insertion/withdrawal cycles | > 50 |

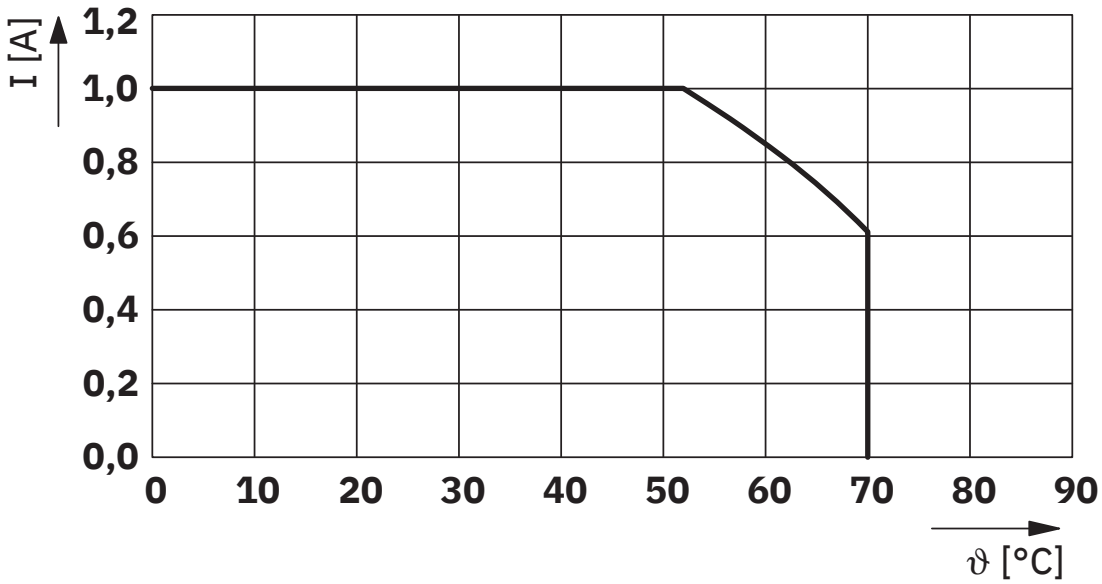
| | |
|---|---|
| Pitch | 2.54 mm |

## 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/2288956

**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% |

EF3.1 Climate Change

| | |
|---|---|
| CO2e kg | 1.416 kg CO2e |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