

CABLE-FLK40/4FLK14/HF/S7/1,0M - Cable



1464625

<https://www.phoenixcontact.com/gb/products/1464625>

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Assembled, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 40-position); connection 2: IDC/FLK socket strip (4x 14-position); cable length: 1 m



Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 1464625 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | DK221S |
| Product key | DK221S |
| GTIN | 4063151858117 |
| Weight per piece (including packing) | 239.4 g |
| Weight per piece (excluding packing) | 22.22 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 ... 50 °C (fixed installation) -10 °C ... 50 °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 | 6ES7521-1BP00-0AA0 (Sinking mode) |
| | 6ES7522-1BP00-0AA0 |
| | 6ES7522-1BP50-0AA0 |
| | 6ES7523-1BP50-0AA0 (DI32 (Sinking mode)/DQ32) |

Cable/line

| | |
|---------------------------------|-------------------------------------|
| Cable length | 1 m |
| UL AWM Style | 21946 |
| Number of positions | 14 |
| Shielded | no |
| Conductor type | Assembled, halogen-free round cable |
| Conductor structure signal line | 7x 0.16 mm |
| AWG signal line | 26 |
| Conductor cross section | 14x 0.14 mm ² |
| Wire diameter incl. insulation | 1 mm ±0.03 mm |
| External cable diameter | 5.80 mm ±0.4 mm |
| Outer sheath, material | halogen-free (type 2) |
| 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) |

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|---|--|
| Smallest bending radius, fixed installation | 50 mm |
| Smallest bending radius, movable installation | 93 mm |
| Dynamic load capacity (bending) | Max. bending cycles: 5000 (at a radius of $\geq 15x$ outside diameter) |
| Halogen-free | yes |
| Flame resistance | IEC 60332-1-2 (raw cable) |
| | VDE 0842, Part 332-1-2 (raw cable) |
| | IEC 60332-3-22 (raw cable) |
| Resistance to oil | can withstand occasional splashes (raw cable) |
| Cable type | Splitting cable for four modules |

Color code

| | |
|--------|-----------------------------------|
| black | IDC/FLK40 (1) = IDC/FLK14-1 (1) |
| brown | IDC/FLK40 (3) = IDC/FLK14-1 (2) |
| red | IDC/FLK40 (5) = IDC/FLK14-1 (3) |
| orange | IDC/FLK40 (7) = IDC/FLK14-1 (4) |
| yellow | IDC/FLK40 (9) = IDC/FLK14-1 (5) |
| green | IDC/FLK40 (11) = IDC/FLK14-1 (6) |
| blue | IDC/FLK40 (13) = IDC/FLK14-1 (7) |
| violet | IDC/FLK40 (15) = IDC/FLK14-1 (8) |
| gray | IDC/FLK40 (19) = IDC/FLK14-1 (9) |
| white | IDC/FLK40 (17) = IDC/FLK14-1 (10) |
| black | IDC/FLK40 (21) = IDC/FLK14-2 (1) |
| brown | IDC/FLK40 (23) = IDC/FLK14-2 (2) |
| red | IDC/FLK40 (25) = IDC/FLK14-2 (3) |
| orange | IDC/FLK40 (27) = IDC/FLK14-2 (4) |
| yellow | IDC/FLK40 (29) = IDC/FLK14-2 (5) |
| green | IDC/FLK40 (31) = IDC/FLK14-2 (6) |
| blue | IDC/FLK40 (33) = IDC/FLK14-2 (7) |
| violet | IDC/FLK40 (35) = IDC/FLK14-2 (8) |
| gray | IDC/FLK40 (39) = IDC/FLK14-2 (9) |
| white | IDC/FLK40 (37) = IDC/FLK14-2 (10) |
| black | IDC/FLK40 (2) = IDC/FLK14-3 (1) |
| brown | IDC/FLK40 (4) = IDC/FLK14-3 (2) |
| red | IDC/FLK40 (6) = IDC/FLK14-3 (3) |
| orange | IDC/FLK40 (8) = IDC/FLK14-3 (4) |
| yellow | IDC/FLK40 (10) = IDC/FLK14-3 (5) |
| green | IDC/FLK40 (12) = IDC/FLK14-3 (6) |
| blue | IDC/FLK40 (14) = IDC/FLK14-3 (7) |
| violet | IDC/FLK40 (16) = IDC/FLK14-3 (8) |
| gray | IDC/FLK40 (20) = IDC/FLK14-3 (9) |
| white | IDC/FLK40 (18) = IDC/FLK14-3 (10) |
| black | IDC/FLK40 (22) = IDC/FLK14-4 (1) |
| brown | IDC/FLK40 (24) = IDC/FLK14-4 (2) |

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| | |
|--------|-----------------------------------|
| red | IDC/FLK40 (26) = IDC/FLK14-4 (3) |
| orange | IDC/FLK40 (28) = IDC/FLK14-4 (4) |
| yellow | IDC/FLK40 (30) = IDC/FLK14-4 (5) |
| green | IDC/FLK40 (32) = IDC/FLK14-4 (6) |
| blue | IDC/FLK40 (34) = IDC/FLK14-4 (7) |
| violet | IDC/FLK40 (36) = IDC/FLK14-4 (8) |
| gray | IDC/FLK40 (40) = IDC/FLK14-4 (9) |
| white | IDC/FLK40 (38) = IDC/FLK14-4 (10) |

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

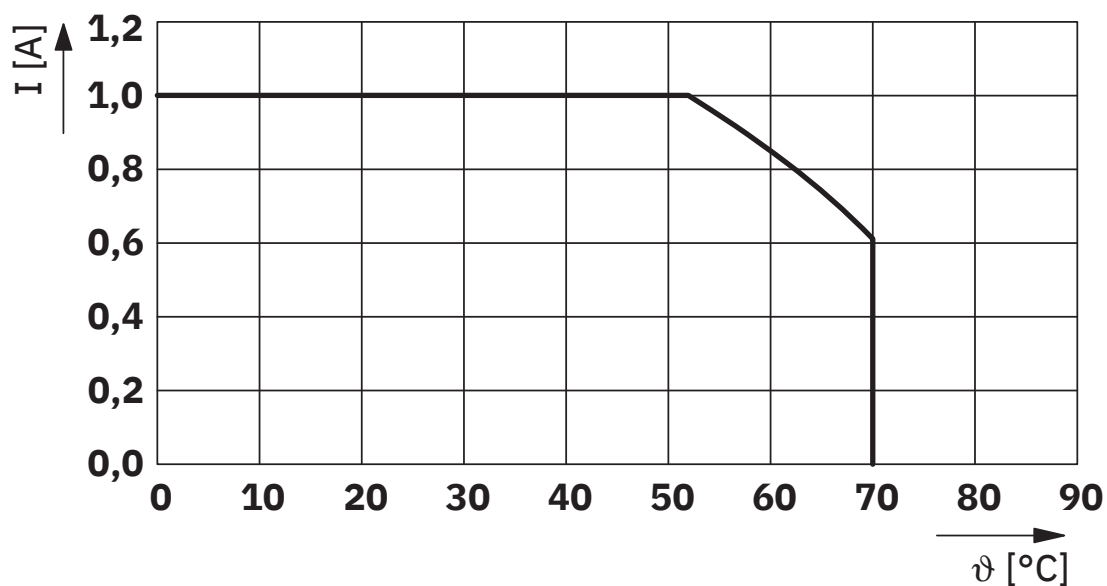
| | |
|----------------------------------|------------------------------|
| Connection in acc. with standard | IEC 60603-13 (in compliance) |
| Connection method | IDC/FLK socket strip |
| Number of connections | 4 |
| Number of positions | 14 |
| Insertion/withdrawal cycles | > 50 |
| Pitch | 2.54 mm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

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


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Approvals

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UL Listed

Approval ID: E238705



cUL Listed

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Classifications

ECLASS

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

ETIM

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

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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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