

Cable - FLK 50/EZ-DR/ 750/KONFEK - 2289638

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Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 7.5 m



COMPLETE

Key Commercial Data

| | |
|--------------|---|
| Packing unit | 1 pc |
| GTIN |  4 017918 057695 |
| GTIN | 4017918057695 |

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 | 7.5 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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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) |
| Cable, preassembly | Insulation displacement, IEC 60352-4/DIN EN 60352-4 |
| 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 60603-13 |
| Connection method | IDC/FLK socket strip |
| Number of connections | 1 |
| Number of positions | 50 |
| Insertion/withdrawal cycles | > 50 |
| Pitch | 2.54 mm |

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 |
| Rated insulation voltage | 63 V |

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Technical data

Standards and Regulations

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

Supported controller

| | |
|---------------------|---------------------------|
| Controller | SIEMENS S7-1500 |
| - suitable I/O card | 6ES7 521-1BL00-0AB0 |
| | 6ES7 522-1BL00-0AB0 |
| | 6ES7 522-1BL01-0AB0 |
| | 6ES7 531-7KF00-0AB0 |
| | 6ES7 531-7NF00-0AB0 |
| | 6ES7 531-7NF10-0AB0 |
| | 6ES7 531-7PF00-0AB0 |
| | 6ES7 532-5HF00-0AB0 |
| Controller | SIEMENS S7-300 / ET 200 M |
| - suitable I/O card | CPU 313C |
| | CPU 313C-2DP |
| | CPU 313C-2PtP |
| | CPU 314C-2DP |
| | CPU 314C-2PtP |
| | 6ES7 321-1BL00-0AA0 |
| | 6ES7 322-1BL00-0AA0 |
| | 6ES7 322-8BH01-0AB0 |
| | 6ES7 323-1BL00-0AA0 |
| | 6ES7 331-1KF01-0AB0 |
| | 6ES7 331-7NF00-0AB0 |
| | 6ES7 331-7NF10-0AB0 |
| | 6ES7 331-7PF01-0AB0 |
| | 6ES7 331-7PF11-0AB0 |
| | 6ES7 332-5HF00-0AB0 |
| | 6ES7 350-2AH01-0AE0 |
| | 6ES7 357-4AH01-0AE0 |
| Controller | SIEMENS S7-400 |
| - suitable I/O card | 6ES7 421-1BL01-0AA0 |
| | 6ES7 421-7BH01-0AB0 |
| | 6ES7 421-7DH00-0AA0 |
| | 6ES7 422-1BL00-0AA0 |
| | 6ES7 422-7BL00-0AB0 |
| | 6ES7 431-0HH0-0AB0 |
| | 6ES7 431-1KF00-0AB0 |

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Technical data

Supported controller

| | |
|---------------------|--|
| | 6ES7 431-1KF10-0AB0 |
| | 6ES7 431-1KF20-0AB0 |
| | 6ES7 431-7KF00-0AB0 |
| | 6ES7 431-7KF10-0AB0 |
| | 6ES7 431-7QH00-0AB0 |
| | 6ES7 432-1HF00-0AB0 |
| Controller | Schneider Electric Modicon TSX QUANTUM |
| - suitable I/O card | DDI 353 |
| | DDI 841 |
| | DDI 853 |
| | DAI 340 |
| | DAI 440 |
| | DAI 453 |
| | DDO 353 |
| | DDM 390 |
| | ACI 030 |
| | ACI 040 |
| | ATI 030 |
| | ARI 030 |
| | AVI 030 |
| | ACO 020 |
| | ACO 130 |
| | AVO 020 |
| | EHC 105 |
| | EHC 202 |
| Controller | ALLEN-BRADLEY ControlLogix |
| - suitable I/O card | 1756-IA16I |
| | 1756-IB16D |
| | 1756-IB16I |
| | 1756-IB32 |
| | 1756-IH16I |
| | 1756-OB32 |
| | 1756-IF8 |
| | 1756-IF16 |
| | 1756-HSC |
| | 1756-M02AE |
| Controller | ALLEN-BRADLEY PLC 5 |
| - suitable I/O card | 1771 IBN |
| | 1771 OBN |
| Controller | HONEYWELL Experion PKS C200 |

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Supported controller

| | |
|---------------------|------------|
| - suitable I/O card | TC-IDK 161 |
| | TC-IDX 161 |
| | TC-IDJ 161 |
| | TC-IDD 321 |
| | TC-ODD 321 |
| | TC-IAH 161 |

Color code

| | |
|---|--|
| Connector 1 = connector 2 (optional) = wire color | IDC/FLK50 (1) = IDC/FLK50 (1) = black |
| | IDC/FLK50 (2) = IDC/FLK50 (2) = brown |
| | IDC/FLK50 (3) = IDC/FLK50 (3) = red |
| | IDC/FLK50 (4) = IDC/FLK50 (4) = orange |
| | IDC/FLK50 (5) = IDC/FLK50 (5) = yellow |
| | IDC/FLK50 (6) = IDC/FLK50 (6) = green |
| | IDC/FLK50 (7) = IDC/FLK50 (7) = blue |
| | IDC/FLK50 (8) = IDC/FLK50 (8) = violet |
| | IDC/FLK50 (9) = IDC/FLK50 (9) = gray |
| | IDC/FLK50 (10) = IDC/FLK50 (10) = white |
| | IDC/FLK50 (11) = IDC/FLK50 (11) = white-black |
| | IDC/FLK50 (12) = IDC/FLK50 (12) = white-brown |
| | IDC/FLK50 (13) = IDC/FLK50 (13) = white-red |
| | IDC/FLK50 (14) = IDC/FLK50 (14) = white-orange |
| | IDC/FLK50 (15) = IDC/FLK50 (15) = white-yellow |
| | IDC/FLK50 (16) = IDC/FLK50 (16) = white-green |
| | IDC/FLK50 (17) = IDC/FLK50 (17) = white-blue |
| | IDC/FLK50 (18) = IDC/FLK50 (18) = white-violet |
| | IDC/FLK50 (19) = IDC/FLK50 (19) = white-gray |
| | IDC/FLK50 (20) = IDC/FLK50 (20) = brown-black |
| | IDC/FLK50 (21) = IDC/FLK50 (21) = brown-red |
| | IDC/FLK50 (22) = IDC/FLK50 (22) = brown-orange |
| | IDC/FLK50 (23) = IDC/FLK50 (23) = brown-yellow |
| | IDC/FLK50 (24) = IDC/FLK50 (24) = brown-green |
| | IDC/FLK50 (25) = IDC/FLK50 (25) = brown-blue |
| | IDC/FLK50 (26) = IDC/FLK50 (26) = brown-violet |
| | IDC/FLK50 (27) = IDC/FLK50 (27) = brown-gray |
| | IDC/FLK50 (28) = IDC/FLK50 (28) = brown-white |
| | IDC/FLK50 (29) = IDC/FLK50 (29) = green-black |
| | IDC/FLK50 (30) = IDC/FLK50 (30) = green-brown |
| | IDC/FLK50 (31) = IDC/FLK50 (31) = green-red |
| | IDC/FLK50 (32) = IDC/FLK50 (32) = green-orange |
| | IDC/FLK50 (33) = IDC/FLK50 (33) = green-blue |

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Color code

| | |
|--|---|
| | IDC/FLK50 (34) = IDC/FLK50 (34) = green-violet |
| | IDC/FLK50 (35) = IDC/FLK50 (35) = green-gray |
| | IDC/FLK50 (36) = IDC/FLK50 (36) = green-white |
| | IDC/FLK50 (37) = IDC/FLK50 (37) = yellow-black |
| | IDC/FLK50 (38) = IDC/FLK50 (38) = yellow-brown |
| | IDC/FLK50 (39) = IDC/FLK50 (39) = yellow-red |
| | IDC/FLK50 (40) = IDC/FLK50 (40) = yellow-orange |
| | IDC/FLK50 (41) = IDC/FLK50 (41) = yellow-blue |
| | IDC/FLK50 (42) = IDC/FLK50 (42) = yellow-violet |
| | IDC/FLK50 (43) = IDC/FLK50 (43) = yellow-gray |
| | IDC/FLK50 (44) = IDC/FLK50 (44) = yellow-white |
| | IDC/FLK50 (45) = IDC/FLK50 (45) = gray-black |
| | IDC/FLK50 (46) = IDC/FLK50 (46) = gray-brown |
| | IDC/FLK50 (47) = IDC/FLK50 (47) = gray-red |
| | IDC/FLK50 (48) = IDC/FLK50 (48) = gray-orange |
| | IDC/FLK50 (49) = IDC/FLK50 (49) = gray-yellow |
| | IDC/FLK50 (50) = IDC/FLK50 (50) = gray-green |

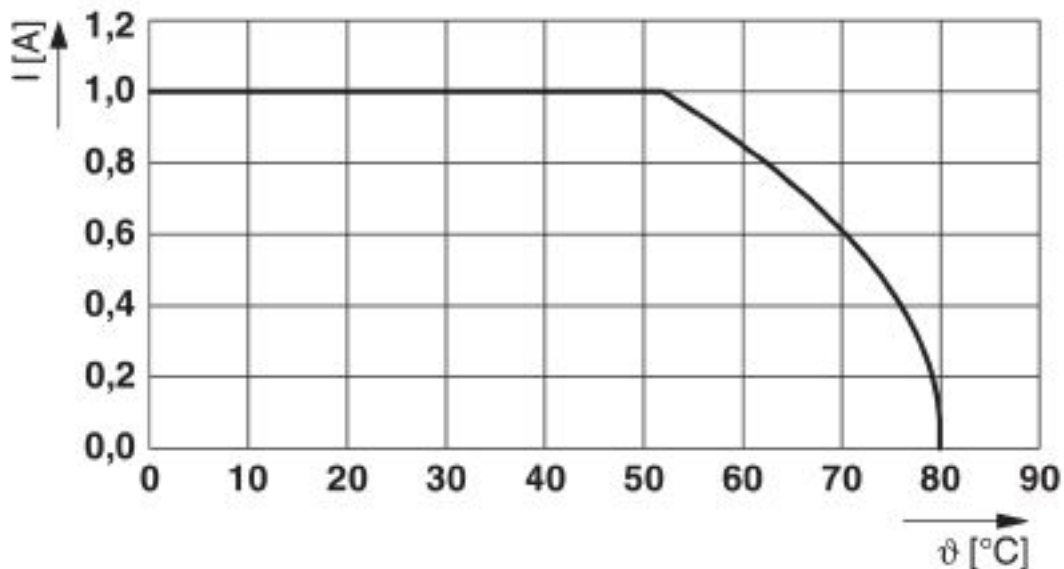
Environmental Product Compliance

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

Drawings

Cable - FLK 50/EZ-DR/ 750/KONFEK - 2289638

Diagram



Maximum permissible current per path in uncoiled state

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 |

UNSPSC

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

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Classifications

UNSPSC

| | |
|--------------|----------|
| 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 |
|-----|---|------------------------|

| | |
|--------------|---|
| cULus Listed |  |
|--------------|---|

Cable - FLK 50/EZ-DR/ 750/KONFEK - 2289638

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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