

Cable - FLK 14/16/EZ-DR/HF/ 250/S7 - 2296951

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Assembled, halogen-free round cable; controller: SIMATIC® TOP connect; connection 1: IDC/FLK socket strip (1x 16-position); connection 2: IDC/FLK socket strip (1x 14-position); cable length: 2.5 m

Key Commercial Data

| | |
|--------------|---------------|
| Packing unit | 1 pc |
| GTIN | |
| GTIN | 4017918733643 |

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 | 2.5 m |
| External cable diameter | 5.8 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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Technical data

General

| | |
|---|---|
| Wire diameter incl. insulation | 1 mm ±0.03 mm |
| Smallest bending radius, fixed installation | 50 mm |
| Smallest bending radius, movable installation | 93 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 | halogen-free (type 2) |
| 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 | 14 |
| 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 | 16 |
| Insertion/withdrawal cycles | > 50 |
| Pitch | 2.54 mm |

Standards and Regulations

| | |
|--------------------------|-----------------------------|
| Flame resistance | 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 |
| Standards/regulations | DIN EN 50178 |
| Rated insulation voltage | 63 V |
| Rated surge voltage | 0.6 kV |
| Insulation | Functional insulation |
| Pollution degree | 2 |
| Overvoltage category | II |

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Technical data

Supported controller

| | |
|------------|---------------------|
| Controller | SIEMENS TOP connect |
|------------|---------------------|

Color code

| | |
|---|---|
| Connector 1 = connector 2 (optional) = wire color | IDC/FLK16 (1) = IDC/FLK14 (10) = white |
| | IDC/FLK16 (2) = IDC/FLK14 (8) = violet |
| | IDC/FLK16 (3) = IDC/FLK14 (12) = white-brown |
| | IDC/FLK16 (4) = IDC/FLK14 (7) = blue |
| | IDC/FLK16 (5) = IDC/FLK14 (14) = white-orange |
| | IDC/FLK16 (6) = IDC/FLK14 (6) = green |
| | IDC/FLK16 (7) = |
| | IDC/FLK16 (8) = IDC/FLK14 (5) = yellow |
| | IDC/FLK16 (9) = IDC/FLK14 (9) = gray |
| | IDC/FLK16 (10) = IDC/FLK14 (4) = orange |
| | IDC/FLK16 (11) = IDC/FLK14 (11) = white-black |
| | IDC/FLK16 (12) = IDC/FLK14 (3) = red |
| | IDC/FLK16 (13) = IDC/FLK14 (13) = white-red |
| | IDC/FLK16 (14) = IDC/FLK14 (2) = brown |
| | IDC/FLK16 (15) = |
| | IDC/FLK16 (16) = IDC/FLK14 (1) = black |

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

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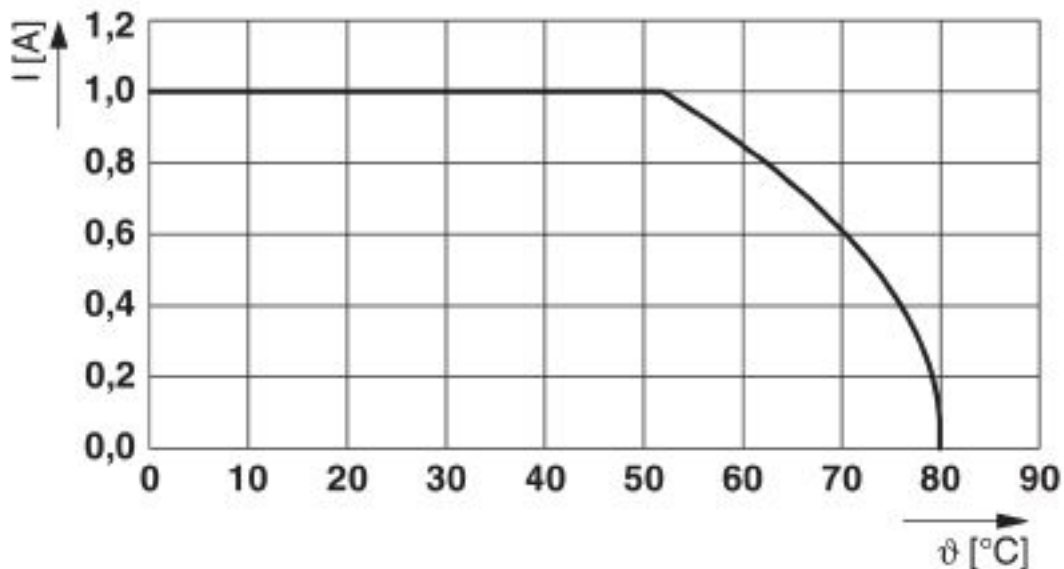
Connection diagram

| 14-pos. Socket strip PIN | 16-pos. Socket strip PIN | Wire color |
|---|---|-------------------|
| 1 | 16 | Black |
| 2 | 14 | Brown |
| 3 | 12 | Red |
| 4 | 10 | Orange |
| 5 | 8 | Yellow |
| 6 | 6 | Green |
| 7 | 4 | Blue |
| 8 | 2 | Violet |
| 9 | 9 | Gray |
| 10 | 1 | White |
| 11 | 11 | White-black |
| 12 | 3 | White-brown |
| 13 | 13 | White-red |
| 14 | 5 | White-orange |
| | 7 | - |
| | 15 | - |

Pin assignment and color code

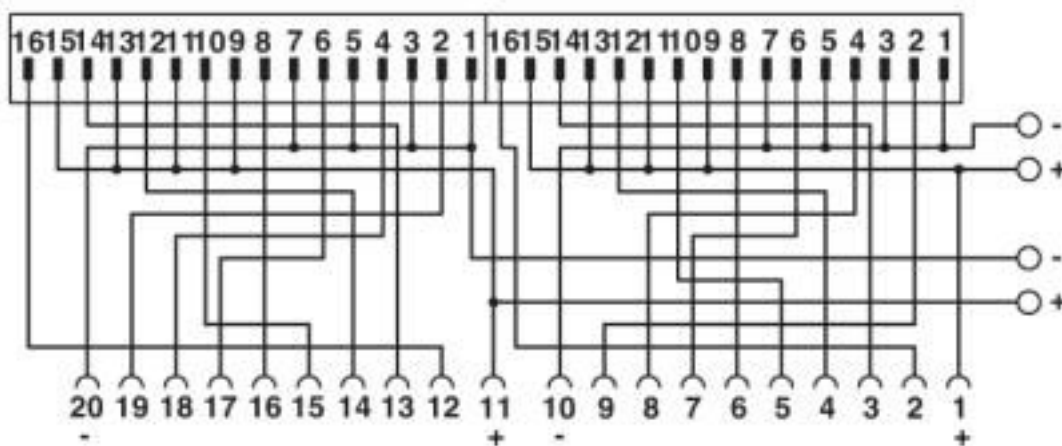
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Diagram



Maximum permissible current per path in uncoiled state

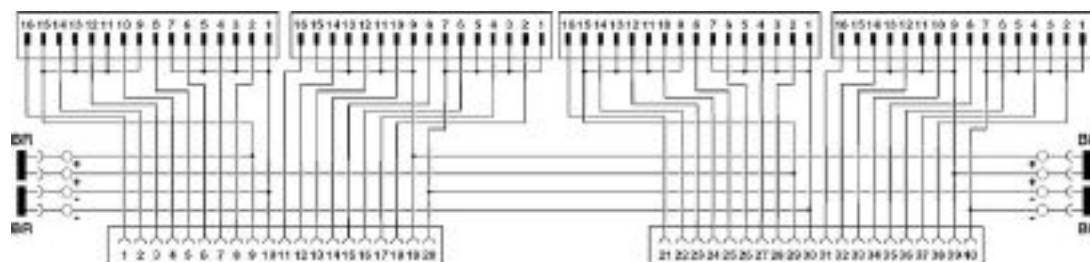
Circuit diagram



Pin assignment Siemens S7 front connector modules 6ES7 921-3...

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Circuit diagram



Pin assignment of digital Siemens S7 front plug-in modules 6ES7 921-5AB20-0AA0 or 6ES7 921-5AH20-0AA0

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 |
| UNSPSC 12.01 | 26121620 |
| UNSPSC 13.2 | 26121620 |
| UNSPSC 18.0 | 26121620 |
| UNSPSC 19.0 | 26121620 |
| UNSPSC 20.0 | 26121620 |
| UNSPSC 21.0 | 26121620 |

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

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