

FLK 14/16/EZ-DR/HF/ 600/S7 - Cable



2904526

<https://www.phoenixcontact.com/us/products/2904526>

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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: 6 m

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2904526 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Product key | DK221S |
| GTIN | 4046356859486 |
| Weight per piece (including packing) | 333.33 g |
| Weight per piece (excluding packing) | 333.33 g |
| Country of origin | DE |

Technical data

Product properties

| | |
|--------------|--------------|
| Product type | System cable |
|--------------|--------------|

Insulation characteristics: Air clearances and creepage distances

| | |
|----------------------|-----------------------|
| Insulation | Functional insulation |
| Overvoltage category | II |
| Pollution degree | 2 |

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) | ≤ 25 V AC |
| Operating voltage (DC) | ≤ 60 V DC |
| Nominal operating mode | 100% operating factor |
| Current (Per path, 50°C) | ≤ 1 A |
| Current (Per path) | ≤ 0.6 A |

Air clearances and creepage distances

| | |
|--------------------------|--------|
| Rated insulation voltage | 63 V |
| Rated surge voltage | 0.6 kV |

Cable/line

| | |
|---------------------------------|-------------------------------------|
| Cable length | 6 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 |

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| | |
|---|---|
| Cable resistance | ≤ 145 Ω/km (20 °C) |
| Insulation resistance | ≥ 20 MΩ*km (20 °C) |
| 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 ≥ 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) |

Color code: Single-core wire

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

Connection data

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 |

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 |

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Standards and regulations

Air clearances and creepage distances

| | |
|-----------------------|--------------|
| Standards/regulations | DIN EN 50178 |
|-----------------------|--------------|

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

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



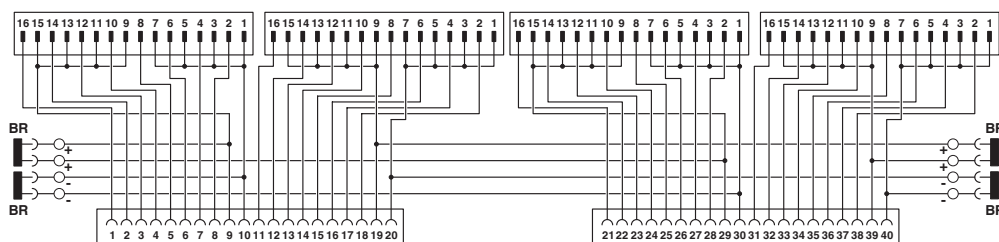
Maximum permissible current per path in uncoiled state

Circuit diagram



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

Circuit diagram



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

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Classifications

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 26121620 |
|-------------|----------|

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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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