

2321156

https://www.phoenixcontact.com/us/products/2321156

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Round cable set; controller: Siemens S7-300 (6ES7 321-1BP00-0AA0, plus-reading operation); connection 1: Fujitsu connector (1x 40-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 8 m

Your advantages

- Signal transfer of 1 x 32 channels
- System cable: 40-pos. connector to 50-pos. flat-ribbon cable strip

Commercial data

| Item number | 2321156 |
|--------------------------------------|--------------------------------|
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | C421 |
| Product key | DK226S |
| GTIN | 4046356331883 |
| Weight per piece (including packing) | 1,140 g |
| Weight per piece (excluding packing) | 1,000 g |
| Customs tariff number | 85444290 |
| Country of origin | DE |



2321156

https://www.phoenixcontact.com/us/products/2321156

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, 70°C) | ≤ 0.6 A |
| | |

Air clearances and creepage distances

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

Supported controller SIEMENS S7-300

|--|

Cable/line

| Cable length | 8 m |
|---------------|-----|
| 40X0.14 [PVC] | |

| 2464/1061 |
|--------------------------|
| 40 |
| no |
| 40X0.14 [PVC] |
| Round cable set |
| 7x 0.16 mm |
| 26 |
| 40x 0.14 mm ² |
| |



2321156

https://www.phoenixcontact.com/us/products/2321156

| Wire diameter incl. insulation | 1 mm ±0.03 mm |
|---|---|
| External cable diameter | 9.90 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 | 82 mm |
| Smallest bending radius, movable installation | 155 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 |
| lor code: Single-core wire | |
| black | Fujitsu40 (A1) = IDC/FLK50 (3) |
| red | Fujitsu40 (A2) = IDC/FLK50 (4) |
| yellow | Fujitsu40 (A3) = IDC/FLK50 (5) |
| blue | Fujitsu40 (A4) = IDC/FLK50 (6) |
| gray | Fujitsu40 (A5) = IDC/FLK50 (7) |
| white-black | Fujitsu40 (A6) = IDC/FLK50 (8) |
| white-red | Fujitsu40 (A7) = IDC/FLK50 (9) |
| white-yellow | Fujitsu40 (A8) = IDC/FLK50 (10) |
| white-blue | Fujitsu40 (A9) = IDC/FLK50 (11) |
| white-gray | Fujitsu40 (A10) = IDC/FLK50 (15) |
| brown-red | Fujitsu40 (A11) = IDC/FLK50 (16) |
| brown-yellow | Fujitsu40 (A12) = IDC/FLK50 (17) |
| brown-blue | Fujitsu40 (A13) = IDC/FLK50 (18) |
| brown-gray | Fujitsu40 (A14) = IDC/FLK50 (19) |
| green-black | Fujitsu40 (A15) = IDC/FLK50 (20) |
| green-red | Fujitsu40 (A16) = IDC/FLK50 (21) |
| green-blue | Fujitsu40 (A17) = IDC/FLK50 (22) |
| green-gray | Fujitsu40 (A18) = IDC/FLK50 (23) |
| yellow-black | Fujitsu40 (A19) = IDC/FLK50 () |
| yellow-red | Fujitsu40 (A20) = IDC/FLK50 () |
| brown | Fujitsu40 (B1) = IDC/FLK50 (27) |
| orange | Fujitsu40 (B2) = IDC/FLK50 (28) |
| green | Fujitsu40 (B3) = IDC/FLK50 (29) |



2321156

https://www.phoenixcontact.com/us/products/2321156

| violet | F.::ito::40 (B4) = IDC/FL (50 (20) |
|---------------|------------------------------------|
| violet | Fujitsu40 (B4) = IDC/FLK50 (30) |
| white | Fujitsu40 (B5) = IDC/FLK50 (31) |
| white-brown | Fujitsu40 (B6) = IDC/FLK50 (32) |
| white-orange | Fujitsu40 (B7) = IDC/FLK50 (33) |
| white-green | Fujitsu40 (B8) = IDC/FLK50 (34) |
| white-violet | Fujitsu40 (B9) = IDC/FLK50 (35) |
| brown-black | Fujitsu40 (B10) = IDC/FLK50 (39) |
| brown-orange | Fujitsu40 (B11) = IDC/FLK50 (40) |
| brown-green | Fujitsu40 (B12) = IDC/FLK50 (41) |
| brown-violet | Fujitsu40 (B13) = IDC/FLK50 (42) |
| brown-white | Fujitsu40 (B14) = IDC/FLK50 (43) |
| green-brown | Fujitsu40 (B15) = IDC/FLK50 (44) |
| green-orange | Fujitsu40 (B16) = IDC/FLK50 (45) |
| green-violet | Fujitsu40 (B17) = IDC/FLK50 (46) |
| green-white | Fujitsu40 (B18) = IDC/FLK50 (47) |
| yellow-brown | Fujitsu40 (B19) = IDC/FLK50 () |
| yellow-orange | Fujitsu40 (B20) = IDC/FLK50 () |

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 | 50 |
| Insertion/withdrawal cycles | > 50 |
| Pitch | 2.54 mm |

Controller level

| Connection method | Fujitsu connector |
|-----------------------------|-------------------|
| Number of connections | 1 |
| Number of positions | 40 |
| Insertion/withdrawal cycles | > 50 |

Standards and regulations

Air clearances and creepage distances

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

Notes

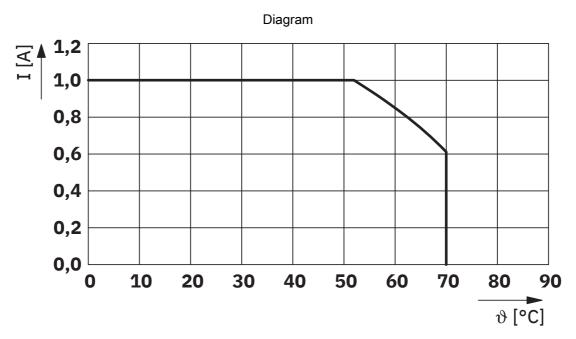
| Notes on operation | For proper use, the specifications of the installation directive (see Downloads) must be observed. For applications or use with third-party products, the specifications, and the safety and warning instructions of the respective third-party manufacturer must also be met. |
|--------------------|--|



2321156

https://www.phoenixcontact.com/us/products/2321156

Drawings



Maximum permissible current per path in uncoiled state



2321156

https://www.phoenixcontact.com/us/products/2321156

Classifications

UNSPSC

UNSPSC 21.0 26121620



2321156

https://www.phoenixcontact.com/us/products/2321156

Environmental product compliance

EU RoHS

| Fulfills EU RoHS substance requirements | Yes |
|---|---|
| Exemption | 6(c) |
| China RoHS | |
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |
| EU REACH SVHC | |
| REACH candidate substance (CAS No.) | Lead(CAS: n/a) |
| | |

Phoenix Contact 2025 @ - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com