

# CABLE-KS50/KS50/7,0M/YUC/CS - Cable



2904408

<https://www.phoenixcontact.com/us/products/2904408>

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Assembled round cable with two molded 50-pos. socket strips (1:1 connection). Cable length: 7.0 m

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2904408                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C421                           |
| Product key                          | DK2CZZ                         |
| GTIN                                 | 4055626062105                  |
| Weight per piece (including packing) | 1,512 g                        |
| Weight per piece (excluding packing) | 1,512 g                        |
| Customs tariff number                | 85444290                       |
| Country of origin                    | CN                             |

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## Technical data

### Product properties

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

### Environmental and real-life conditions

#### Ambient conditions

|                                         |                  |
|-----------------------------------------|------------------|
| Ambient temperature (operation)         | -20 °C ... 50 °C |
| Ambient temperature (storage/transport) | -20 °C ... 70 °C |

### Electrical properties

|                        |                                           |
|------------------------|-------------------------------------------|
| Operating voltage (DC) | ≤ 30 V DC                                 |
| Current (Per path)     | ≤ 500 mA (up to 70°C ambient temperature) |

Supported controller YOKOGAWA CS3000 CentumVP

|                   |        |
|-------------------|--------|
| Suitable I/O card | AAR145 |
|-------------------|--------|

### Cable/line

|              |     |
|--------------|-----|
| Cable length | 7 m |
|--------------|-----|

#### 50X0.14 [PVC]

|                                               |                                                                   |
|-----------------------------------------------|-------------------------------------------------------------------|
| UL AWM Style                                  | 2464/1061                                                         |
| Number of positions                           | 50                                                                |
| Shielded                                      | yes                                                               |
| Cable type                                    | 50X0.14 [PVC]                                                     |
| Conductor type                                | Assembled shielded round cable                                    |
| Conductor structure signal line               | 7x 0.16 mm                                                        |
| AWG signal line                               | 26                                                                |
| Conductor cross section                       | 50x 0.14 mm <sup>2</sup>                                          |
| Wire diameter incl. insulation                | 1 mm ±0.03 mm                                                     |
| External cable diameter                       | 11.00 mm ±0.3 mm                                                  |
| Outer sheath, material                        | Semi-rigid PVC                                                    |
| External sheath, color                        | gray                                                              |
| Conductor material                            | Tin-plated Cu litz wires                                          |
| Cable resistance                              | ≤ 145 Ω/km (at 20 °C)                                             |
| Insulation resistance                         | ≥ 20 MΩ*km (20 °C)                                                |
| Smallest bending radius, fixed installation   | 114 mm                                                            |
| Smallest bending radius, movable installation | 205 mm                                                            |
| Dynamic load capacity (bending)               | Max. bending cycles: 5000 (at a radius of ≥ 18x 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)                                        |

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|                   |                                               |
|-------------------|-----------------------------------------------|
|                   | UL VW-1                                       |
|                   | CSA FT-1                                      |
| Resistance to oil | can withstand occasional splashes (raw cable) |

## Connection data

### Field level

|                       |                           |
|-----------------------|---------------------------|
| Connection method     | Yokogawa, KS compatible   |
| Number of connections | 1                         |
| Number of positions   | 50                        |
| Tightening torque     | 0.5 Nm (Screw connection) |

### Controller level

|                       |                                |
|-----------------------|--------------------------------|
| Connection method     | Yokogawa, I/O cards compatible |
| Number of connections | 1                              |
| Number of positions   | 50                             |
| Tightening torque     | 0.5 Nm (Screw connection)      |

## 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. |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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## Classifications

### ETIM

|          |          |
|----------|----------|
| ETIM 8.0 | EC000237 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 26121600 |
|-------------|----------|

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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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