

FLKMIL-50/4FLK14/EZ-DR/2000/CS - Cable



2301914

<https://www.phoenixcontact.com/us/products/2301914>

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Assembled shielded round cable; controller: Yokogawa CS3000 CentumVP (ADV561, ADV161); connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (4x 14-position); cable length: 20 m

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2301914 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Product key | DK221N |
| GTIN | 4017918960773 |
| Weight per piece (including packing) | 2,997 g |
| Weight per piece (excluding packing) | 2,971 g |
| Country of origin | DE |

Technical data

Product properties

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

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 (DC) | ≤ 30 V DC |
| Nominal operating mode | 100% operating factor |
| Current (Per path) | ≤ 500 mA (uncoiled) |

Supported controller: YOKOGAWA CS3000 CentumVP

| | |
|-------------------|--------|
| Suitable I/O card | ADV161 |
| | ADV561 |

Supported controller: YOKOGAWA STARDOM

| | |
|-------------------|---------|
| Suitable I/O card | NFDV161 |
| | NFDV561 |

Cable/line

| | |
|--------------|------|
| Cable length | 20 m |
|--------------|------|

40X0.14 [PVC]

| | |
|---------------------------------|--------------------------------|
| UL AWM Style | 2464/1061 |
| Number of positions | 40 |
| Shielded | yes |
| Cable type | 40X0.14 [PVC] |
| Conductor type | Assembled shielded round cable |
| Conductor structure signal line | 7x 0.16 mm |
| AWG signal line | 26 |
| Conductor cross-section | 40x 0.14 mm ² |
| Wire diameter incl. insulation | 1 mm ±0.03 mm |
| External cable diameter | 9.80 mm ±0.3 mm |
| Outer sheath, material | Semi-rigid PVC |
| External sheath, color | gray |
| Conductor material | Tin-plated Cu litz wires |

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| | |
|---|---|
| Cable resistance | ≤ 145 Ω/km (at 20 °C) |
| Insulation resistance | ≥ 20 MΩ*km (20 °C) |
| Smallest bending radius, fixed installation | 101 mm |
| Smallest bending radius, movable installation | 182 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) |
| | UL VW-1 |
| | CSA FT-1 |
| Resistance to oil | can withstand occasional splashes (raw cable) |
| Cable type | Splitting cable for four modules |

Connection data

Connection 1

| | |
|----------------------------------|------------------------------|
| Connection in acc. with standard | IEC 60603-13 (in compliance) |
| Connection method | IDC/FLK socket strip |
| Number of connections | 1 |
| Number of positions | 50 |
| Insertion/withdrawal cycles | > 50 |
| Pitch | 2.54 mm |

Connection 2

| | |
|----------------------------------|------------------------------|
| Connection in acc. with standard | IEC 60603-13 (in compliance) |
| Connection method | IDC/FLK socket strip |
| Number of connections | 4 |
| Number of positions | 14 |
| Insertion/withdrawal cycles | > 50 |
| Pitch | 2.54 mm |

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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Drawings

Connection diagram

| 50-pos. connector to the I/O card | 4 x 14-pos. connector to the module | Wire color |
|---|---|---------------------|
| 1 | Byte 0 | 1 black |
| 3 | | 2 brown |
| 5 | | 3 red |
| 7 | | 4 orange |
| 9 | | 5 yellow |
| 11 | | 6 green |
| 13 | | 7 blue |
| 15 | | 8 Violet |
| 41 | | 9 gray |
| 39 | | 10 White |
| 17 | Byte 1 | 1 white-black |
| 19 | | 2 white-brown |
| 21 | | 3 white-red |
| 23 | | 4 white-orange |
| 25 | | 5 White-yellow |
| 27 | | 6 white-green |
| 29 | | 7 white-blue |
| 31 | | 8 white-violet |
| 43 | | 9 white-gray |
| 37 | | 10 brown-black |
| 2 | Byte 2 | 1 brown-red |
| 4 | | 2 brown-orange |
| 6 | | 3 brown-yellow |
| 8 | | 4 brown-green |
| 10 | | 5 brown-blue |
| 12 | | 6 brown-violet |
| 14 | | 7 brown-gray |
| 16 | | 8 brown-white |
| 42 | | 9 green-black |
| 36 | | 10 green-brown |
| 18 | Byte 3 | 1 green-red |
| 20 | | 2 green-orange |
| 22 | | 3 green-blue |
| 24 | | 4 green-violet |
| 26 | | 5 green-gray |
| 28 | | 6 green-white |
| 30 | | 7 yellow-black |
| 32 | | 8 yellow-brown |
| 44 | | 9 yellow-red |
| 34 | | 10 yellow-orange |

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2301914>



EAC

Approval ID: RU*-DE.HB*35.B00385



UL Listed

Approval ID: E238705

| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|-------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine | | | | |
| | 125 V | 0.5 A | - | - |



cUL Listed

Approval ID: E238705

| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|-------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine | | | | |
| | 125 V | 0.5 A | - | - |

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27242220 |
| ECLASS-15.0 | 27242220 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | 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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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com