

FLK 40/4X14/EZ-DR/ 50/OB32 - Cable



2296786

<https://www.phoenixcontact.com/pc/products/2296786>

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Round cable set; controller: Allen-Bradley SLC 500 (OB 32); connection 1: IDC/FLK socket strip (1x 40-position); connection 2: IDC/FLK socket strip (4x 14-position); cable length: 0.5 m

Your advantages

- System cable can be used to split 32 channels into 4 x 8 channels

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2296786 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Product key | CK221R |
| Catalog page | Page 475 (C-5-2019) |
| GTIN | 4017918612870 |
| Weight per piece (including packing) | 115.2 g |
| Weight per piece (excluding packing) | 115 g |
| Customs tariff number | 85444290 |
| Country of origin | DE |

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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) | -40 °C ... 70 °C (fixed installation) -10 °C ... 70 °C (flexible installation) |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C |
| Altitude | ≤ 2000 m |

Electrical properties

| | |
|--------------------------|----------------------------------|
| Operating voltage (AC) | ≤ 30 V AC |
| Operating voltage (DC) | ≤ 60 V DC |
| Nominal operating mode | 100% operating factor |
| Current (Per path, 50°C) | ≤ 1 A (Uncoiled, see derating) |
| Current (Per path, 70°C) | ≤ 0.6 A (Uncoiled, see derating) |

Supported controller ALLEN-BRADLEY SLC 500

| | |
|-------------------|--------------------------|
| Suitable I/O card | 1746 OB 32 1746 OV 32 |
|-------------------|--------------------------|

Cable/line

| | |
|--------------|-------|
| Cable length | 0.5 m |
|--------------|-------|

10X0.14 [PVC]

| | |
|---------------------------------|--------------------------|
| UL AWM Style | 2464/1061 |
| Number of positions | 10 |
| Shielded | no |
| Cable type | 10X0.14 [PVC] |
| Conductor type | Round cable set |
| Conductor structure signal line | 7x 0.16 mm |
| AWG signal line | 26 |
| Conductor cross section | 10x 0.14 mm ² |
| Wire diameter incl. insulation | 1 mm ±0.03 mm |
| External cable diameter | 6.10 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) |

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| | |
|---|---|
| Smallest bending radius, fixed installation | 52 mm |
| Smallest bending radius, movable installation | 98 mm |
| Max. bending cycles | 5000 |
| 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) |
| IDC/FLK40 (5) | IDC/FLK14-1 (1) = black |
| IDC/FLK40 (7) | IDC/FLK14-1 (2) = brown |
| IDC/FLK40 (9) | IDC/FLK14-1 (3) = red |
| IDC/FLK40 (11) | IDC/FLK14-1 (4) = orange |
| IDC/FLK40 (13) | IDC/FLK14-1 (5) = yellow |
| IDC/FLK40 (15) | IDC/FLK14-1 (6) = green |
| IDC/FLK40 (17) | IDC/FLK14-1 (7) = blue |
| IDC/FLK40 (19) | IDC/FLK14-1 (8) = violet |
| IDC/FLK40 (1) | IDC/FLK14-1 (9) = gray |
| IDC/FLK40 (37) | IDC/FLK14-1 (10) = white |
| IDC/FLK40 (21) | IDC/FLK14-2 (1) = black |
| IDC/FLK40 (23) | IDC/FLK14-2 (2) = brown |
| IDC/FLK40 (25) | IDC/FLK14-2 (3) = red |
| IDC/FLK40 (27) | IDC/FLK14-2 (4) = orange |
| IDC/FLK40 (29) | IDC/FLK14-2 (5) = yellow |
| IDC/FLK40 (31) | IDC/FLK14-2 (6) = green |
| IDC/FLK40 (33) | IDC/FLK14-2 (7) = blue |
| IDC/FLK40 (35) | IDC/FLK14-2 (8) = violet |
| IDC/FLK40 (3) | IDC/FLK14-2 (9) = gray |
| IDC/FLK40 (39) | IDC/FLK14-2 (10) = white |
| IDC/FLK40 (6) | IDC/FLK14-3 (1) = black |
| IDC/FLK40 (8) | IDC/FLK14-3 (2) = brown |
| IDC/FLK40 (10) | IDC/FLK14-3 (3) = red |
| IDC/FLK40 (12) | IDC/FLK14-3 (4) = orange |
| IDC/FLK40 (14) | IDC/FLK14-3 (5) = yellow |
| IDC/FLK40 (16) | IDC/FLK14-3 (6) = green |
| IDC/FLK40 (18) | IDC/FLK14-3 (7) = blue |
| IDC/FLK40 (20) | IDC/FLK14-3 (8) = violet |
| IDC/FLK40 (2) | IDC/FLK14-3 (9) = gray |
| IDC/FLK40 (38) | IDC/FLK14-3 (10) = white |
| IDC/FLK40 (22) | IDC/FLK14-4 (1) = black |
| IDC/FLK40 (24) | IDC/FLK14-4 (2) = brown |
| IDC/FLK40 (26) | IDC/FLK14-4 (3) = red |
| IDC/FLK40 (28) | IDC/FLK14-4 (4) = orange |

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| | |
|----------------|----------------------------------|
| IDC/FLK40 (30) | IDC/FLK14-4 (5) = yellow |
| IDC/FLK40 (32) | IDC/FLK14-4 (6) = green |
| IDC/FLK40 (34) | IDC/FLK14-4 (7) = blue |
| IDC/FLK40 (36) | IDC/FLK14-4 (8) = violet |
| IDC/FLK40 (4) | IDC/FLK14-4 (9) = gray |
| IDC/FLK40 (40) | IDC/FLK14-4 (10) = white |
| Cable type | Splitting cable for four modules |

Connection data

Connection 1

| | |
|----------------------------------|-----------------------|
| Connection in acc. with standard | based on IEC 60603-13 |
| Connection method | IDC/FLK socket strip |
| Number of connections | 1 |
| Number of positions | 40 |
| Insertion/withdrawal cycles | > 50 |
| Pitch | 2.54 mm |

Connection 2

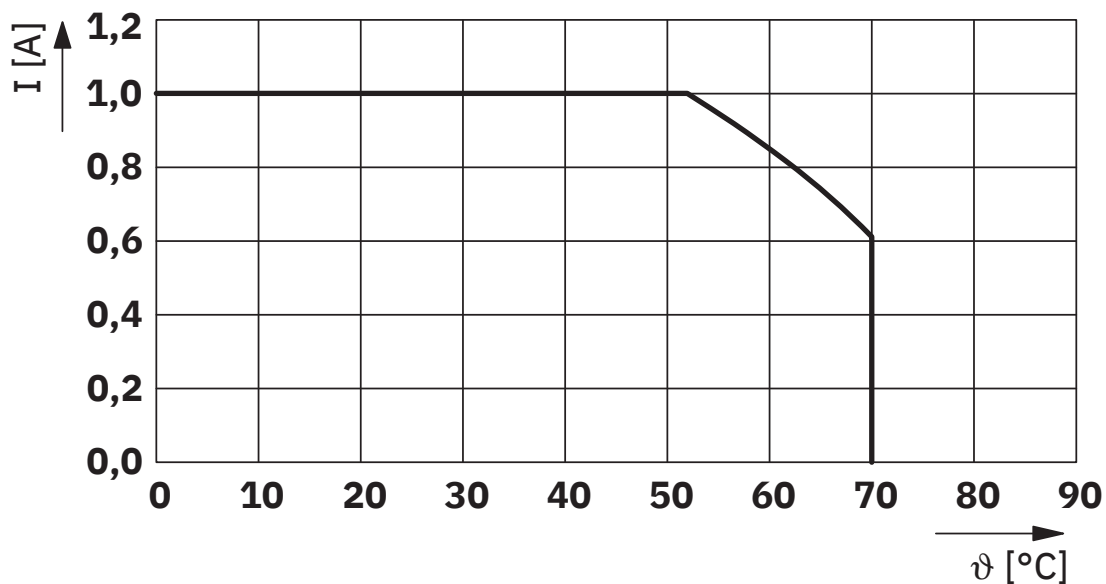
| | |
|----------------------------------|-----------------------|
| Connection in acc. with standard | based on IEC 60603-13 |
| Connection method | IDC/FLK socket strip |
| Number of connections | 4 |
| Number of positions | 14 |
| Insertion/withdrawal cycles | > 50 |
| Pitch | 2.54 mm |

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. |
|--------------------|--|

Drawings

Diagram



Maximum permissible current per path in uncoiled state

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/2296786>



EAC

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



UL Listed

Approval ID: FILE E 238705

| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | 125 V | 1 A | - | - |



cUL Listed

Approval ID: FILE E 238705

| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | 125 V | 1 A | - | - |

cULus Listed

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27242220 |
|-------------|----------|

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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