

## Round cable - VIP-CAB-FLK14/AXIO/0,14/6,0M - 2901611

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Round cable set; controller: Axioline Realtime I/O; connection 1: Single wires (8-position) (The wires are marked and fitted with ferrules); connection 2: IDC/FLK socket strip (1x 14-position, 90 °-out put); cable length: 6 m

### Your advantages

- ✓ 8 pre-assembled open ends, for connection to the Axioline realtime I/O system
- ✓ 14-pos. connector, molded
- ✓ Labeling field on plug
- ✓ Transmission of groups of 8 channels
- ✓ 1:1 connection

RoHS

### Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 1 pc                                                                                                    |
| GTIN         | <br>4 046356 617697 |
| GTIN         | 4046356617697                                                                                           |

### Technical data

#### Ambient conditions

|                                         |                                          |
|-----------------------------------------|------------------------------------------|
| Ambient temperature (operation)         | -40 °C ... 70 °C (fixed installation)    |
|                                         | -10 °C ... 70 °C (flexible installation) |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C                         |
| Maximum altitude                        | ≤ 2000 m                                 |
| Degree of protection                    | IP00                                     |
|                                         | ≥ IP54 (Installation location)           |

#### General

|                                         |               |
|-----------------------------------------|---------------|
| Max. permissible operating voltage      | 25 V AC       |
|                                         | 60 V DC       |
| Max. current carrying capacity per path | 1 A (50 °C)   |
|                                         | 0.6 A (70 °C) |

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## Technical data

### General

|                                               |                                                     |
|-----------------------------------------------|-----------------------------------------------------|
| Length of cable                               | 6 m                                                 |
| External cable diameter                       | 6.1 mm $\pm$ 0.4 mm                                 |
| Single wire, cross section                    | 0.14 mm <sup>2</sup>                                |
| Single wire, cross section [AWG]              | 26                                                  |
| Single wire, number of litz wires             | 7                                                   |
| Single wire, material                         | Cu tin-plated                                       |
| Wire diameter incl. insulation                | 1 mm $\pm$ 0.03 mm                                  |
| Smallest bending radius, fixed installation   | 52 mm                                               |
| Smallest bending radius, movable installation | 98 mm                                               |
| Bending cycles                                | 5000 (at a radius of $\geq$ 15x outside diameter)   |
| Cable, preassembly                            | Insulation displacement, IEC 60352-4/DIN EN 60352-4 |
| Shielding                                     | no                                                  |
| Cable insulation resistance                   | $\geq$ 20 M $\Omega$ /km (20 °C)                    |
| Cable resistance                              | $\leq$ 145 $\Omega$ /km (20 °C)                     |
| Outer sheath, material                        | Semi-rigid PVC                                      |
| External sheath, color                        | gray                                                |
| Nominal operating mode                        | 100% operating factor                               |

### Connection data

|                                  |                      |
|----------------------------------|----------------------|
| Connection name                  | Field level          |
| Connection in acc. with standard | IEC 60603-13         |
| Connection method                | IDC/FLK socket strip |
| Number of connections            | 1                    |
| Number of positions              | 14                   |
| Exit angle                       | 90 °                 |
| Conductor cross section AWG      | 26                   |
| Insertion/withdrawal cycles      | > 50                 |
| Pitch                            | 2.54 mm              |

### Connection data 2

|                     |                                               |
|---------------------|-----------------------------------------------|
| Connection name     | Controller level                              |
| Connection method   | Single wires                                  |
| Number of positions | 8                                             |
| Note                | The wires are marked and fitted with ferrules |

### Standards and Regulations

|                   |                             |
|-------------------|-----------------------------|
| Flame resistance  | UL VW-1                     |
|                   | CSA FT-1                    |
|                   | IEC 60332-1-2               |
|                   | VDE 0842, Part 332-1-2      |
|                   | IEC 60332-3-22              |
| Resistance to oil | against occasional splashes |

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### Technical data

#### Standards and Regulations

|                          |                                       |
|--------------------------|---------------------------------------|
| Gasoline resistance      | against occasional splashes           |
| Designation              | Air clearances and creepage distances |
| Standards/regulations    | DIN EN 50178                          |
| Rated insulation voltage | 63 V                                  |
| Rated surge voltage      | 0.6 kV                                |
| Insulation               | Functional insulation                 |
| Pollution degree         | 2                                     |
| Overvoltage category     | II                                    |

#### Supported controller

|                     |                          |
|---------------------|--------------------------|
| Controller          | PHOENIX CONTACT Axioline |
| - suitable I/O card | AXL DI 16/4              |
|                     | AXL DI 32/1              |
|                     | AXL DO 16/3              |
|                     | AXL DO 32/1              |

#### Color code

|                                                   |                        |
|---------------------------------------------------|------------------------|
| Connector 1 = connector 2 (optional) = wire color | IDC/FLK14 (1) = black  |
|                                                   | IDC/FLK14 (2) = brown  |
|                                                   | IDC/FLK14 (3) = red    |
|                                                   | IDC/FLK14 (4) = orange |
|                                                   | IDC/FLK14 (5) = yellow |
|                                                   | IDC/FLK14 (6) = green  |
|                                                   | IDC/FLK14 (7) = blue   |
|                                                   | IDC/FLK14 (8) = violet |

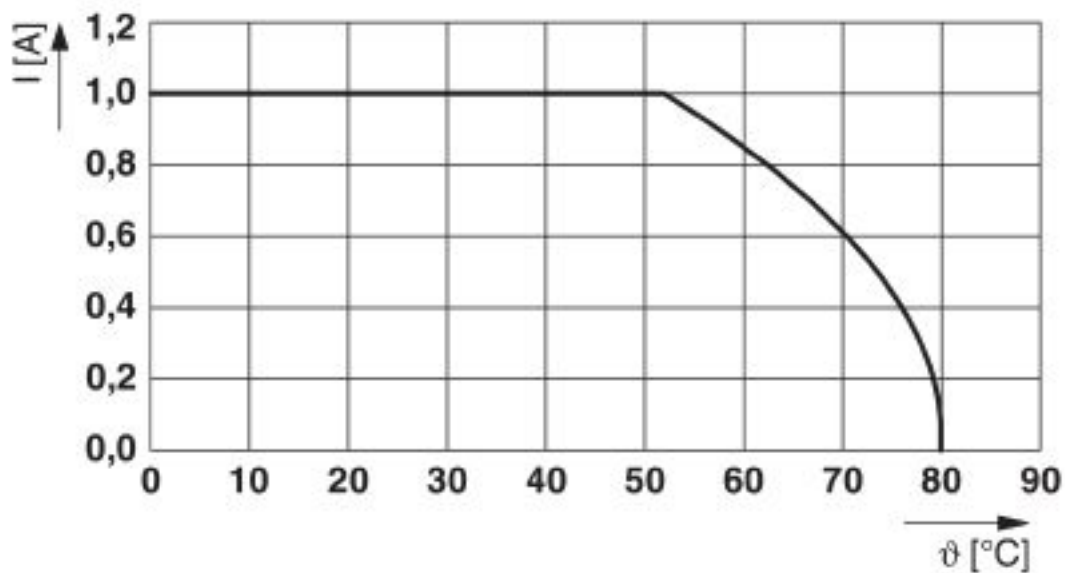
#### Environmental Product Compliance

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| China RoHS | Environmentally Friendly Use Period = 50 years                                                      |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

### Drawings

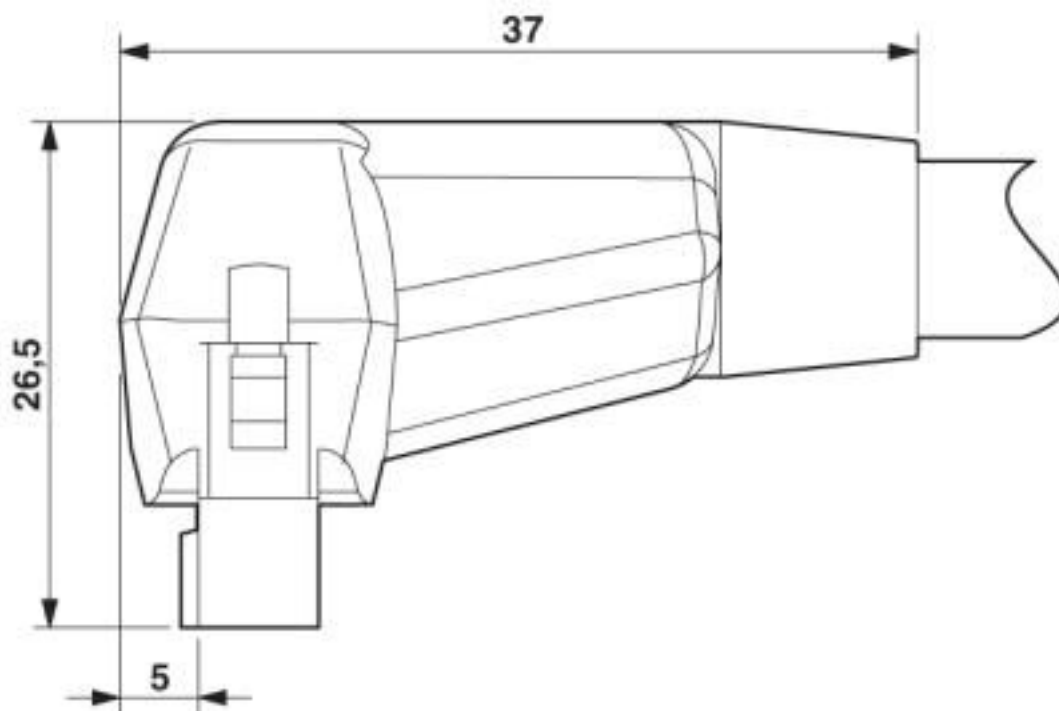
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Diagram



Maximum permissible current per path in uncoiled state

Dimensional drawing



## Round cable - VIP-CAB-FLK14/AXIO/0,14/6,0M - 2901611

### Classifications

#### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27242220 |
| eCl@ss 4.0    | 27250300 |
| eCl@ss 4.1    | 27250300 |
| eCl@ss 5.0    | 27242200 |
| eCl@ss 5.1    | 27242200 |
| eCl@ss 6.0    | 27249200 |
| eCl@ss 7.0    | 27249205 |
| eCl@ss 8.0    | 27249205 |
| eCl@ss 9.0    | 27242220 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000237 |
| ETIM 3.0 | EC000237 |
| ETIM 4.0 | EC000237 |
| ETIM 5.0 | EC000237 |
| ETIM 6.0 | EC000237 |
| ETIM 7.0 | EC000237 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 26121620 |
| UNSPSC 7.0901 | 26121620 |
| UNSPSC 11     | 26121620 |
| UNSPSC 12.01  | 26121620 |
| UNSPSC 13.2   | 26121620 |
| UNSPSC 18.0   | 26121620 |
| UNSPSC 19.0   | 26121620 |
| UNSPSC 20.0   | 26121620 |
| UNSPSC 21.0   | 26121620 |

### Approvals

#### Approvals

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##### Approvals

UL Listed / cUL Listed / EAC / cULus Listed

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##### Ex Approvals

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#### Approval details

## Round cable - VIP-CAB-FLK14/AXIO/0,14/6,0M - 2901611

### Approvals

|                    |                                                                                   |                                                                                                                                                       |               |
|--------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| UL Listed          |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 238705 |
| Nominal voltage UN |                                                                                   | 125 V                                                                                                                                                 |               |
| Nominal current IN |                                                                                   | 1 A                                                                                                                                                   |               |

|                    |                                                                                   |                                                                                                                                                       |               |
|--------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| cUL Listed         |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 238705 |
| Nominal voltage UN |                                                                                   | 125 V                                                                                                                                                 |               |
| Nominal current IN |                                                                                   | 1 A                                                                                                                                                   |               |

|     |                                                                                    |                         |  |
|-----|------------------------------------------------------------------------------------|-------------------------|--|
| EAC |  | RU*-<br>DE.HB*35.B00385 |  |
|-----|------------------------------------------------------------------------------------|-------------------------|--|

|              |                                                                                     |  |  |
|--------------|-------------------------------------------------------------------------------------|--|--|
| cULus Listed |  |  |  |
|--------------|-------------------------------------------------------------------------------------|--|--|

### Accessories

#### Accessories

#### Marker carrier cable

Cable marker carrier - KME - 0807083



Cable marker carrier, white, unlabeled, mounting type: Assembly with cable binders, cable diameter: > 5 mm, lettering field size: 20 mm x 8 mm

# Mouser Electronics

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