

# CABLE-EC56/F/OE/0,34/S/ 4,0M - Cable



2903397

<https://www.phoenixcontact.com/us/products/2903397>

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Assembled shielded round cable; connection 1: Single wires (56-position) (The wires are marked and fitted with ferrules. The braided shield is routed to a separate cable end.); connection 2: EDAC/ELCO socket strip (1x 56-position); cable length: 4 m



## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2903397       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Product key                          | DK2281        |
| GTIN                                 | 4046356734714 |
| Weight per piece (including packing) | 1,607.9 g     |
| Weight per piece (excluding packing) | 1,607.9 g     |
| Country of origin                    | DE            |

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## Technical data

### Product properties

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

### Environmental and real-life conditions

#### Ambient conditions

|   |                  |
|---|------------------|
| Ambient temperature (operation)         | -20 °C ... 60 °C |
| Ambient temperature (storage/transport) | -20 °C ... 70 °C |

### Electrical properties

|   |         |
|---|---------|
| Max. permissible operating voltage      | 25 V AC |
|   | 60 V DC |
| Max. current carrying capacity per path | 1.5 A   |

### Cable/line

|              |     |
|--------------|-----|
| Cable length | 4 m |
|--------------|-----|

#### 56X0.34 [PVC]

|                                 |   |
|---------------------------------|---|
| UL AWM Style                    | 2464/1061   |
| Number of positions             | 56  |
| Shielded                        | yes   |
| Cable type                      | 56X0.34 [PVC]   |
| Conductor type                  | Assembled shielded round cable                                    |
| Conductor structure signal line | 19x 0.15 mm   |
| AWG signal line                 | 22  |
| Conductor cross-section         | 56x 0.34 mm <sup>2</sup>  |
| Wire diameter incl. insulation  | 1.3 mm ±0.05 mm   |
| External cable diameter         | 14.10 mm ±0.5 mm  |
| Outer sheath, material          | Semi-rigid PVC  |
| External sheath, color          | gray  |
| Conductor material              | Bare Cu litz wires  |
| Cable resistance                | ≤ 60 Ω/km (at 20 °C)  |
| Insulation resistance           | ≥ 20 MΩ*km (at 20 °C)   |
| 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)                     |

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## Connection data

### Field level

|                       |                        |
|-----------------------|------------------------|
| Connection method     | EDAC/ELCO socket strip |
| Number of connections | 1                      |
| Number of positions   | 56                     |

### Controller level

|                     |  |
|---------------------|--|
| Connection method   | Single wires   |
| Number of positions | 56   |
| Note                | The wires are marked and fitted with ferrules. The braided shield is routed to a separate cable end. |

## 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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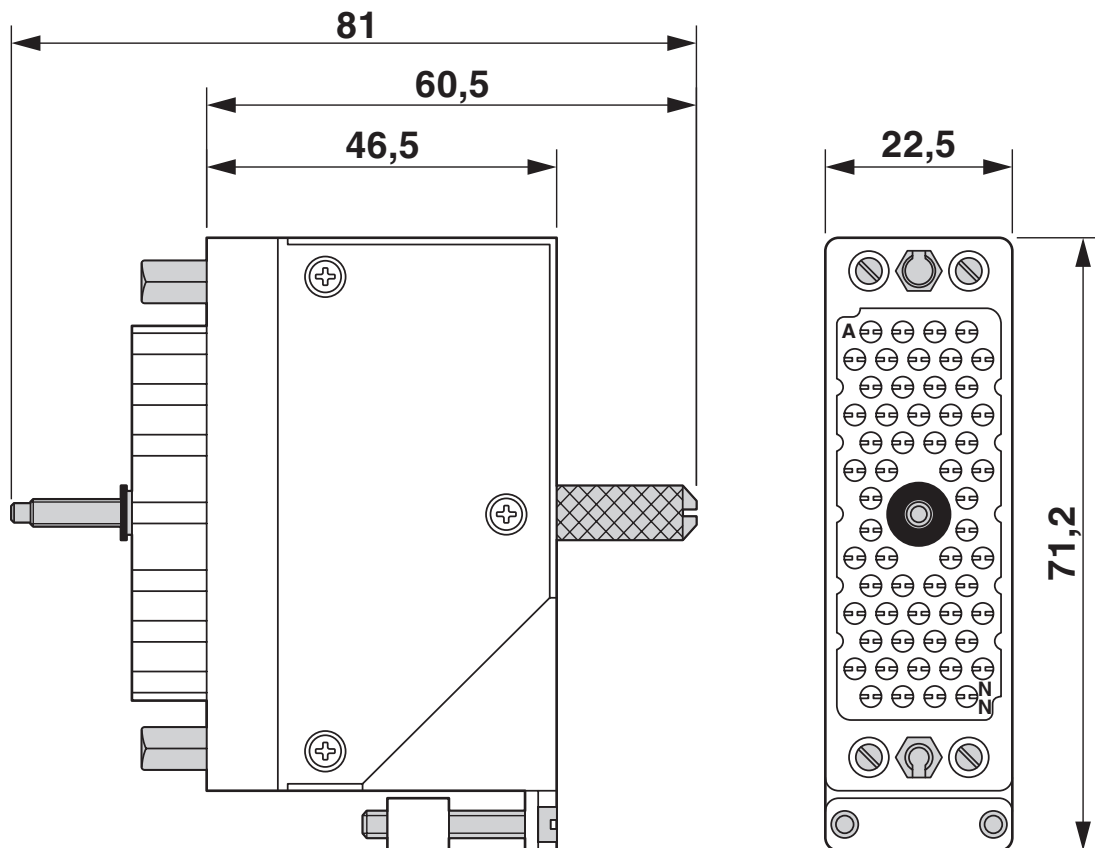


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## Drawings

Dimensional drawing



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## Connection diagram

| Individual wire marking | EDAC socket plug-in connector | Individual wire marking | EDAC socket plug-in connector |
|-------------------------|-------------------------------|-------------------------|-------------------------------|
| Z                       | Z                             | 31                      | m                             |
| 1                       | A                             | 32                      | n                             |
| 2                       | B                             | 33                      | p                             |
| 3                       | C                             | 34                      | r                             |
| 4                       | D                             | 35                      | s                             |
| 5                       | E                             | 36                      | t                             |
| 6                       | F                             | 37                      | u                             |
| 7                       | H                             | 38                      | v                             |
| 8                       | J                             | 39                      | w                             |
| 9                       | K                             | 40                      | x                             |
| 10                      | L                             | 41                      | y                             |
| 11                      | M                             | 42                      | z                             |
| 12                      | N                             | 43                      | AA                            |
| 13                      | P                             | 44                      | BB                            |
| 14                      | R                             | 45                      | CC                            |
| 15                      | S                             | 46                      | DD                            |
| 16                      | T                             | 47                      | EE                            |
| 17                      | U                             | 48                      | FF                            |
| 18                      | V                             | 49                      | HH                            |
| 19                      | W                             | 50                      | JJ                            |
| 20                      | X                             | 51                      | KK                            |
| 21                      | a                             | 52                      | LL                            |
| 22                      | b                             | 53                      | MM                            |
| 23                      | c                             | 54                      | NN                            |
| 24                      | d                             | Y                       | Y                             |
| 25                      | e                             |                         |                               |
| 26                      | f                             |                         |                               |
| 27                      | h                             |                         |                               |
| 28                      | j                             |                         |                               |
| 29                      | k                             |                         |                               |
| 30                      | l                             |                         |                               |

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## Environmental product compliance

### 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.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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