

# Cable - CABLE-FCN24/2X14/250/MDL

2305729

<https://www.phoenixcontact.com/us/products/2305729>



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Splitting cable (Fujitsu FCN 24-pos. on two FLK 14-pos.) for GE-Fanuc 90-30; cable length: 2.5 m

## Commercial Data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2305729                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to Order (non-returnable) |
| Sales Key                            | C02                            |
| Product Key                          | CK2144                         |
| GTIN                                 | 4046356039093                  |
| Weight per Piece (including packing) | 314.7 g                        |
| Weight per Piece (excluding packing) | 303.3 g                        |
| Customs tariff number                | 85444290                       |
| Country of origin                    | DE                             |

## Technical Data

### Product properties

|                            |                       |
|----------------------------|-----------------------|
| Product type               | System cable          |
| Insulation characteristics |                       |
| Overvoltage category       | II                    |
| Pollution degree           | 2                     |
| Insulation                 | Functional insulation |

### Ambient conditions

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

### Electrical properties

|                                         |                              |
|-----------------------------------------|------------------------------|
| Max. permissible operating voltage      | 25 V AC<br>60 V DC           |
| Nominal operating mode                  | 100% operating factor        |
| Max. current carrying capacity per path | 1 A (50 °C)<br>0.6 A (70 °C) |
| Rated insulation voltage                | 63 V                         |
| Rated surge voltage                     | 0.6 kV                       |

### Cable / line

|                                 |                          |
|---------------------------------|--------------------------|
| Cable length                    | 2.5 m                    |
| 14X0.14 [PVC]                   |                          |
| UL AWM Style                    | 2464/1061                |
| Number of positions             | 14                       |
| Shielded                        | no                       |
| Cable type                      | 14X0.14 [PVC]            |
| Conductor type                  | Round cable set          |
| Conductor structure signal line | 7x 0.16 mm               |
| AWG signal line                 | 26                       |
| Conductor cross section         | 14x 0.14 mm <sup>2</sup> |
| Wire diameter incl. insulation  | 1 mm ±0.03 mm            |
| External cable diameter         | 6.4 mm ±0.4 mm           |
| Outer sheath, material          | Semi-rigid PVC           |
| External sheath, color          | gray                     |
| Conductor material              | Tin-plated Cu litz wires |

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|                                               |                                                         |
|-----------------------------------------------|---------------------------------------------------------|
| Cable resistance                              | $\leq 145 \Omega/\text{km}$ (20 °C)                     |
| Insulation resistance                         | $\geq 20 \text{ M}\Omega \cdot \text{km}$ (20 °C)       |
| Smallest bending radius, fixed installation   | 55 mm                                                   |
| Smallest bending radius, movable installation | 104 mm                                                  |
| Max. bending cycles                           | 5000 (at a radius of $\geq 15 \times$ 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)           |
| Type                                          | Splitting cable for two modules                         |

## Connection data

### Field level

|                                  |                      |
|----------------------------------|----------------------|
| Connection in acc. with standard | IEC 60603-13         |
| Connection method                | IDC/FLK socket strip |
| Number of connections            | 2                    |
| Number of positions              | 14                   |
| Insertion/withdrawal cycles      | > 50                 |
| Pitch                            | 2.54 mm              |

### Controller level

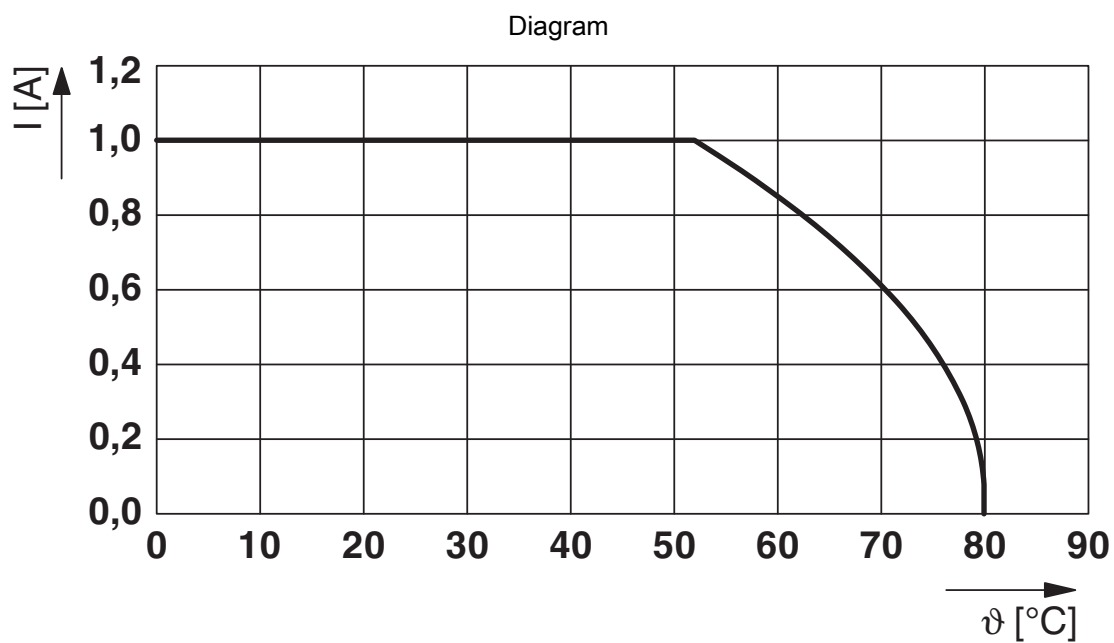
|                             |                   |
|-----------------------------|-------------------|
| Connection method           | Fujitsu connector |
| Number of connections       | 1                 |
| Number of positions         | 24                |
| Insertion/withdrawal cycles | > 50              |

## Standards and regulations

### Air clearances and creepage distances

|                       |              |
|-----------------------|--------------|
| Standards/regulations | DIN EN 50178 |
|-----------------------|--------------|

## Drawings



Maximum permissible current per path in uncoiled state

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## Classifications

### ECLASS

|               |          |
|---------------|----------|
| ECLASS-9.0    | 27242220 |
| ECLASS-10.0.1 | 27242220 |
| ECLASS-11.0   | 27242220 |

### ETIM

|          |          |
|----------|----------|
| ETIM 7.0 | EC000237 |
|----------|----------|

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## Environmental Product Compliance

|            |                                                                                                              |
|------------|--------------------------------------------------------------------------------------------------------------|
| China RoHS | Environmentally Friendly Use Period = 50 years                                                               |
|            | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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