

## Cable - CABLE-FCN40/1X50/ 4,0M/S7-OUT - 2321059

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Round cable set; controller: Siemens S7-300 (6ES7 322-1BP00-0AA0 and 6ES7 322-1BP50-0AA0 (negative switching)); connection 1: Fujitsu connector (1x 40-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 4 m

### Your advantages

- ✓ Signal transfer of 1 x 32 channels
- ✓ System cable: 40-pos. connector to 50-pos. flat-ribbon cable strip

RoHS

### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 1 pc                                                                                                    |
| GTIN                                 | <br>4 046356 330763 |
| GTIN                                 | 4046356330763                                                                                           |
| Weight per Piece (excluding packing) | 591.400 g                                                                                               |
| Custom tariff number                 | 85444290                                                                                                |
| Country of origin                    | Germany                                                                                                 |

### 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

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### Technical data

#### 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)                                 |
| Length of cable                               | 4 m                                          |
| External cable diameter                       | 9.9 mm ±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 ±0.03 mm                                |
| Smallest bending radius, fixed installation   | 82 mm                                        |
| Smallest bending radius, movable installation | 155 mm                                       |
| Bending cycles                                | 5000 (at a radius of ≥ 15x outside diameter) |
| Shielding                                     | no                                           |
| Cable insulation resistance                   | ≥ 20 MΩ/km (20 °C)                           |
| Cable resistance                              | ≤ 145 Ω/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              | 50                   |
| Insertion/withdrawal cycles      | > 50                 |
| Pitch                            | 2.54 mm              |

#### Connection data 2

|                             |                   |
|-----------------------------|-------------------|
| Connection name             | Controller level  |
| Connection method           | Fujitsu connector |
| Number of connections       | 1                 |
| Number of positions         | 40                |
| Insertion/withdrawal cycles | > 50              |

#### Standards and Regulations

|                  |         |
|------------------|---------|
| Flame resistance | UL VW-1 |
|------------------|---------|

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#### Standards and Regulations

|                          |                                       |
|--------------------------|---------------------------------------|
|                          | CSA FT-1                              |
|                          | IEC 60332-1-2                         |
|                          | VDE 0842, Part 332-1-2                |
|                          | IEC 60332-3-22                        |
| Resistance to oil        | against occasional splashes           |
| 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          | SIEMENS S7-300      |
| - suitable I/O card | 6ES7 322-1BP50-0AA0 |
|                     | 6ES7 322-1BP00-0AA0 |

#### Color code

|                                                   |                                                 |
|---------------------------------------------------|-------------------------------------------------|
| Connector 1 = connector 2 (optional) = wire color | Fujitsu40 (A1) = IDC/FLK50 (3) = black          |
|                                                   | Fujitsu40 (A2) = IDC/FLK50 (4) = red            |
|                                                   | Fujitsu40 (A3) = IDC/FLK50 (5) = yellow         |
|                                                   | Fujitsu40 (A4) = IDC/FLK50 (6) = blue           |
|                                                   | Fujitsu40 (A5) = IDC/FLK50 (7) = gray           |
|                                                   | Fujitsu40 (A6) = IDC/FLK50 (8) = white-black    |
|                                                   | Fujitsu40 (A7) = IDC/FLK50 (9) = white-red      |
|                                                   | Fujitsu40 (A8) = IDC/FLK50 (10) = white-yellow  |
|                                                   | Fujitsu40 (A9) = IDC/FLK50 (11) = white-blue    |
|                                                   | Fujitsu40 (A10) = IDC/FLK50 (1) = white-gray    |
|                                                   | Fujitsu40 (A11) = IDC/FLK50 (15) = brown-red    |
|                                                   | Fujitsu40 (A12) = IDC/FLK50 (16) = brown-yellow |
|                                                   | Fujitsu40 (A13) = IDC/FLK50 (17) = brown-blue   |
|                                                   | Fujitsu40 (A14) = IDC/FLK50 (18) = brown-gray   |
|                                                   | Fujitsu40 (A15) = IDC/FLK50 (19) = green-black  |
|                                                   | Fujitsu40 (A16) = IDC/FLK50 (20) = green-red    |
|                                                   | Fujitsu40 (A17) = IDC/FLK50 (21) = green-blue   |
|                                                   | Fujitsu40 (A18) = IDC/FLK50 (22) = green-gray   |

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### Technical data

#### Color code

|  |                                                  |
|--|--------------------------------------------------|
|  | Fujitsu40 (A19) = IDC/FLK50 (23) = yellow-black  |
|  | Fujitsu40 (A20) = IDC/FLK50 (13) = yellow-red    |
|  | Fujitsu40 (B1) = IDC/FLK50 (27) = brown          |
|  | Fujitsu40 (B2) = IDC/FLK50 (28) = orange         |
|  | Fujitsu40 (B3) = IDC/FLK50 (29) = green          |
|  | Fujitsu40 (B4) = IDC/FLK50 (30) = violet         |
|  | Fujitsu40 (B5) = IDC/FLK50 (31) = white          |
|  | Fujitsu40 (B6) = IDC/FLK50 (32) = white-brown    |
|  | Fujitsu40 (B7) = IDC/FLK50 (33) = white-orange   |
|  | Fujitsu40 (B8) = IDC/FLK50 (34) = white-green    |
|  | Fujitsu40 (B9) = IDC/FLK50 (35) = white-violet   |
|  | Fujitsu40 (B10) = IDC/FLK50 (25) = brown-black   |
|  | Fujitsu40 (B11) = IDC/FLK50 (39) = brown-orange  |
|  | Fujitsu40 (B12) = IDC/FLK50 (40) = brown-green   |
|  | Fujitsu40 (B13) = IDC/FLK50 (41) = brown-violet  |
|  | Fujitsu40 (B14) = IDC/FLK50 (42) = brown-white   |
|  | Fujitsu40 (B15) = IDC/FLK50 (43) = green-brown   |
|  | Fujitsu40 (B16) = IDC/FLK50 (44) = green-orange  |
|  | Fujitsu40 (B17) = IDC/FLK50 (45) = green-violet  |
|  | Fujitsu40 (B18) = IDC/FLK50 (46) = green-white   |
|  | Fujitsu40 (B19) = IDC/FLK50 (47) = yellow-brown  |
|  | Fujitsu40 (B20) = IDC/FLK50 (37) = yellow-orange |

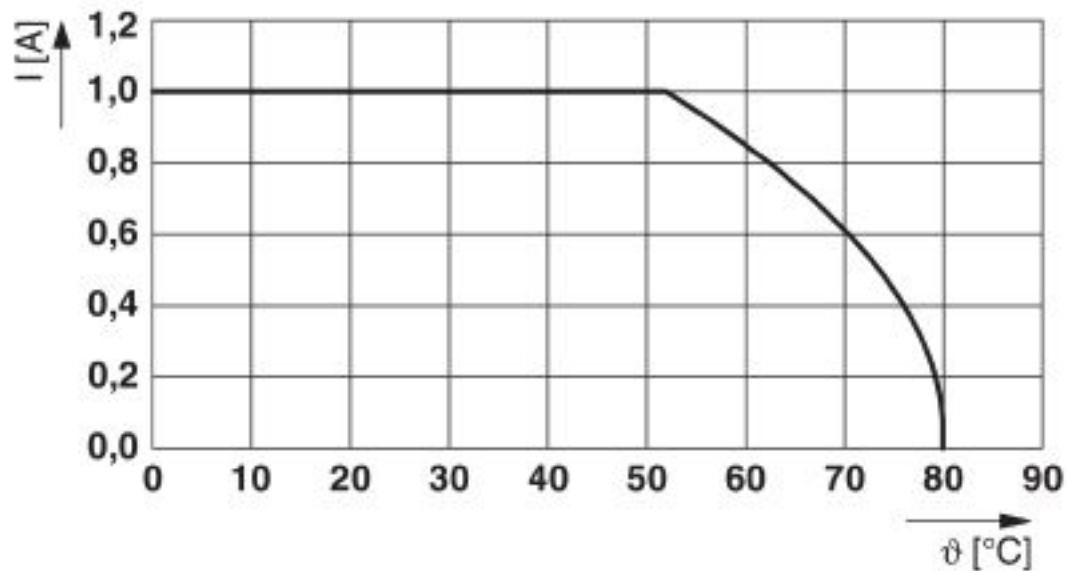
#### Environmental Product Compliance

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

### Drawings

## Cable - CABLE-FCN40/1X50/ 4,0M/S7-OUT - 2321059

Diagram



Maximum permissible current per path in uncoiled state

### Classifications

eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27242220 |
| eCl@ss 4.0    | 27060300 |
| eCl@ss 4.1    | 27060300 |
| 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 |

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### Classifications

#### 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

#### Approvals

UL Listed / cUL Listed / EAC / cULus Listed

#### Ex Approvals

#### Approval details

|                    |  |                                                                                     |                                                                                                                                                       |               |
|--------------------|--|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 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                                                                                 |                                                                                                                                                       |               |

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### Approvals

|     |                                                                                   |                        |
|-----|-----------------------------------------------------------------------------------|------------------------|
| 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