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## Network cable - VS-OE-IP20-93B-LI/2,0 - 1416128

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Assembled PROFINET cable, CAT5e, shielded, star quad, AWG 22 stranded (7-wire), RAL 6018 (yellow-green), free conductor end on RJ45 plug/IP20, line, length: 2 m



### Key Commercial Data

|                      |                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit         | 1 STK                                                                                                   |
| GTIN                 | <br>4 046356 474030 |
| GTIN                 | 4046356474030                                                                                           |
| Custom tariff number | 8536909000                                                                                              |
| Sales Key            | ABNAEG                                                                                                  |

### Technical data

#### Dimensions

|                 |     |
|-----------------|-----|
| Length of cable | 2 m |
|-----------------|-----|

#### Ambient conditions

|                      |      |
|----------------------|------|
| Degree of protection | IP20 |
|----------------------|------|

#### General data

|                                       |                                |
|---------------------------------------|--------------------------------|
| Number of positions                   | 4                              |
| Signal type/category                  | PROFINET CAT5 (IEC 11801:2002) |
| Degree of pollution                   | 1                              |
|                                       | 1                              |
| Alternative short product description | PROFINET cable                 |
| Rated voltage (III/3)                 | 50 V                           |

#### Characteristics head 1

|                                          |                |
|------------------------------------------|----------------|
| Head type                                | free cable end |
| No. of positions (pin connector pattern) | 4              |

#### Characteristics head 2

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### Technical data

#### Characteristics head 2

|                                          |                           |
|------------------------------------------|---------------------------|
| Head type                                | Plug straight RJ45 / IP20 |
| No. of positions (pin connector pattern) | 4                         |

#### Standards and Regulations

|                                        |    |
|----------------------------------------|----|
| Flammability rating according to UL 94 | V0 |
|----------------------------------------|----|

#### Cable

|                                               |                                                    |
|-----------------------------------------------|----------------------------------------------------|
| Cable type                                    | PROFINET PVC stranded CAT5                         |
| Cable type (abbreviation)                     | 93B                                                |
| UL AWM style                                  | 21694                                              |
| Signal type/category                          | PROFINET CAT5 (IEC 11801), 100 Mbps                |
| Cable structure                               | 1x4xAWG22/7; SF/TQ                                 |
| Conductor cross section                       | 4x 0.34 mm <sup>2</sup>                            |
| AWG signal line                               | 22                                                 |
| Conductor structure signal line               | 7x 0.25 mm                                         |
| Core diameter including insulation            | 1.55 mm                                            |
| Wire colors                                   | White, yellow, blue, orange                        |
| Overall twist                                 | Star quad                                          |
| Shielding                                     | Aluminum-coated foil, tinned copper braided shield |
| Optical shield covering                       | 85 %                                               |
| External sheath, color                        | green RAL 6018                                     |
| Outer sheath thickness                        | approx. 0.9 mm                                     |
| External cable diameter D                     | 6.5 mm ±0.2 mm                                     |
| Minimum bending radius, fixed installation    | 3 x D                                              |
| Minimum bending radius, flexible installation | 7 x D                                              |
| Cable weight                                  | 67 kg/km                                           |
| Outer sheath, material                        | PVC                                                |
| Material, inner sheath                        | PVC                                                |
| Material conductor insulation                 | PE                                                 |
| Conductor material                            | Tin-plated Cu litz wires                           |
| Insulation resistance                         | ≥ 500 MΩ*km                                        |
| Loop resistance                               | ≤ 120 Ω (per km)                                   |
| Wave impedance                                | 100 Ω ±15 Ω (at 100 MHz)                           |
| Signal speed                                  | 0.66 c                                             |
| Signal runtime                                | 5.3 ns/m                                           |
| Coupling resistance                           | ≤ 20.00 mΩ/m (At 10 MHz)                           |
| Nominal voltage, cable                        | 600 V                                              |
| Test voltage Core/Core                        | 2000 V (50 Hz, 1 min.)                             |
| Test voltage Core/Shield                      | 2000 V (50 Hz, 1 min.)                             |
| Flame resistance                              | According to UL 1685 (CSA FT 4)                    |
| Resistance to oil                             | Resistant to oil to a limited extent               |
| Other resistance                              | UV resistant According to UL 1581, Section 1200    |

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## Technical data

### Cable

|                                         |                                                 |
|-----------------------------------------|-------------------------------------------------|
| Ambient temperature (operation)         | -40 °C ... 70 °C (cable, fixed installation)    |
|                                         | -40 °C ... 70 °C (cable, flexible installation) |
| Ambient temperature (installation)      | -20 °C ... 60 °C                                |
| Ambient temperature (storage/transport) | -50 °C ... 70 °C                                |

### Environmental Product Compliance

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

## Approvals

### Approvals

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#### Approvals

EAC

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#### Ex Approvals

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### Approval details

|     |                                                                                     |         |
|-----|-------------------------------------------------------------------------------------|---------|
| EAC |  | B.00767 |
|-----|-------------------------------------------------------------------------------------|---------|

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