

# VS-M12FSBPS-IP20-93B/0,5 - Network cable



1404367

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Network cable, PROFINET CAT5 (100 Mbps), 4-position, PVC/PVC, green RAL 6018, Flush-type female connector straight M12, coding: D / IP67, on Plug straight RJ45 / IP20, cable length: 0.5 m

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1404367       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB18          |
| Product key                          | ABNPAB        |
| GTIN                                 | 4046356692366 |
| Weight per piece (including packing) | 70.5 g        |
| Weight per piece (excluding packing) | 63.646 g      |
| Customs tariff number                | 85444290      |
| Country of origin                    | PL            |

## Technical data

### Product properties

|                     |                                   |
|---------------------|-----------------------------------|
| Product type        | Circular connectors (device side) |
| Number of positions | 4                                 |
| Shielded            | yes                               |

### Insulation characteristics

|                      |   |
|----------------------|---|
| Overvoltage category | I |
| Degree of pollution  | 1 |

### Material specifications

|  |                          |
|--|--------------------------|
| Flammability rating according to UL 94 | V2                       |
| Housing material                       | CuZn/PA                  |
| Outer sheath, material                 | PVC                      |
| Conductor material                     | Tin-plated Cu litz wires |

### Electrical properties

|   |                       |
|---|-----------------------|
| Rated voltage (III/2)                   | 50 V                  |
| Rated voltage (III/3)                   | 50 V                  |
| Nominal voltage $U_N$                   | 48 V                  |
| Transmission medium                     | Copper                |
| Transmission speed                      | 100 Mbps              |
| Transmission characteristics (category) | CAT5 (IEC 11801:2002) |
| Wave impedance                          | 100 $\Omega$          |
| Max. conductor resistance               | 120 $\Omega$ /km      |

### Mechanical properties

#### Mechanical data

|                             |            |
|-----------------------------|------------|
| Insertion/withdrawal cycles | $\geq 100$ |
|-----------------------------|------------|

### Connector

#### Connection 1

|                      |   |
|----------------------|---|
| Type                 | Flush-type female connector straight M12 / IP67 |
| Number of positions  | 4   |
| Coding type          | D   |
| Degree of protection | IP67  |

#### Connection 2

|                      |                           |
|----------------------|---------------------------|
| Type                 | Plug straight RJ45 / IP20 |
| Number of positions  | 4                         |
| Degree of protection | IP20                      |

Connector specifications (second page)

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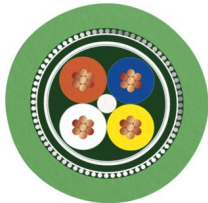
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|                                 |  |
|---------------------------------|--|
| Housing material                | Plastic                                |
| Type of locking                 | Locking clips                          |
| Degree of protection            | IP20                                   |
| No. of pos.                     | RJ45                                   |
| Contact switching type          | Pin                                    |
| Insertion/withdrawal cycles     | ≥ 1000                                 |
| Contact resistance              | < 20 mΩ (Contact)<br>< 100 mΩ (shield) |
| Ambient temperature (operation) | -20 °C ... 70 °C                       |

## Cable/line

|              |       |
|--------------|-------|
| Cable length | 0.5 m |
|--------------|-------|

### PROFINET PVC stranded CAT5 [93B]

|                                |   |
|--------------------------------|---|
| Dimensional drawing            |  |
| UL AWM Style                   | 21695 (80 °C / 600 V)   |
| Number of positions            | 4   |
| Shielded                       | yes   |
| Cable type                     | PROFINET PVC stranded CAT5 [93B]  |
| Conductor structure            | 1x4xAWG22/7, SF/TQ  |
| AWG signal line                | 22  |
| Conductor cross-section        | 4x 0.34 mm <sup>2</sup>   |
| Wire diameter incl. insulation | 1.5 mm ±0.1 mm  |
| External cable diameter        | 6.50 mm ±0.2 mm   |
| Outer sheath, material         | PVC   |
| External sheath, color         | green RAL 6018  |
| Conductor material             | Tin-plated Cu litz wires  |
| Material wire insulation       | PE  |
| Single wire, color             | white, yellow, blue, orange   |
| Overall twist                  | Star quad   |
| Optical shield covering        | 85 %  |
| Insulation resistance          | ≥ 5 GΩ*km   |
| Loop resistance                | ≤ 120.00 Ω/km   |
| Wave impedance                 | 100 Ω ±5 Ω (at 100 MHz)   |
| Nominal voltage, cable         | ≤ 600 V   |
| Test voltage Core/Core         | 2000 V ((50 Hz/1 min))  |
| Test voltage Core/Shield       | 2000.00 V ((50 Hz/1 min))   |

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|   |  |
|---|--|
| Minimum bending radius, fixed installation    | 4 x D  |
| Minimum bending radius, flexible installation | 8 x D  |
| Flame resistance                              | UL 1581, Section 1060 and UL 2556, Section 9.3 (FT1)     |
|   | UL 1685 (CSA FT 4)                                       |
|   | UL 1581, Section 1100 and UL 2556, Section 9.1 (HFT/FT2) |
| Resistance to oil                             | OIL RES I according to UL 2256                           |
| Other resistance                              | UV resistant (according to UL 1581, Section 1200)        |
| Ambient temperature (operation)               | -40 °C ... 80 °C (cable, fixed installation)             |
|   | -10 °C ... 70 °C (Cable, flexible installation)          |

## Environmental and real-life conditions

### Ambient conditions

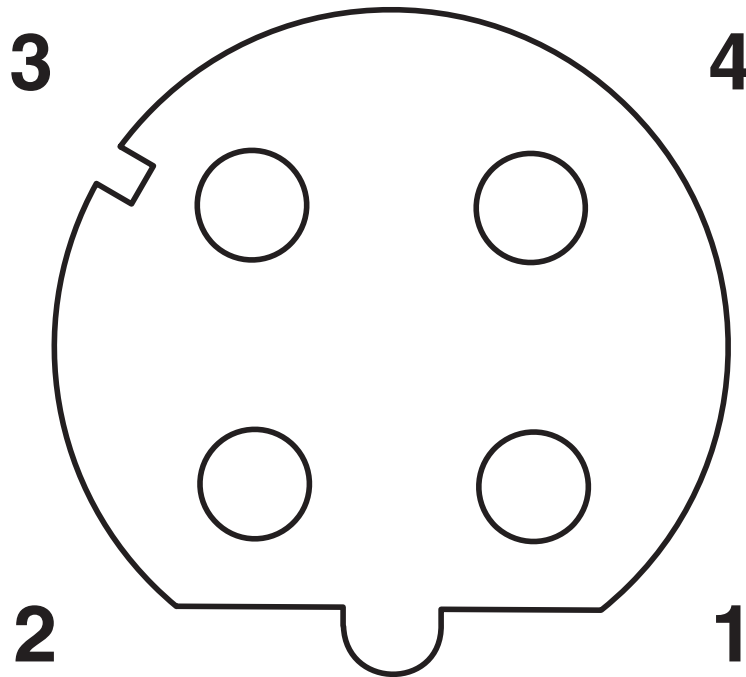
|                                 |  |
|---------------------------------|--|
| Degree of protection            | IP20   |
|                                 | IP67/IP20                                      |
| Ambient temperature (operation) | -40 °C ... 70 °C (cable, fixed installation)   |
|                                 | -5 °C ... 50 °C (Cable, flexible installation) |
|                                 | Plug / socket                                  |
| Resistance to oil               | limited oil resistance                         |

## Standards and regulations

|                          |                                 |
|--------------------------|---------------------------------|
| Flame resistance         | according to UL 1685 (CSA FT 4) |
| Resistance to oil        | limited oil resistance          |
| Standard designation     | M12 circular connector          |
| Standards/specifications | according to IEC 61076-2-101    |

## Drawings

Schematic diagram



Pin assignment M12 socket, 4-pos., D-coded, female side

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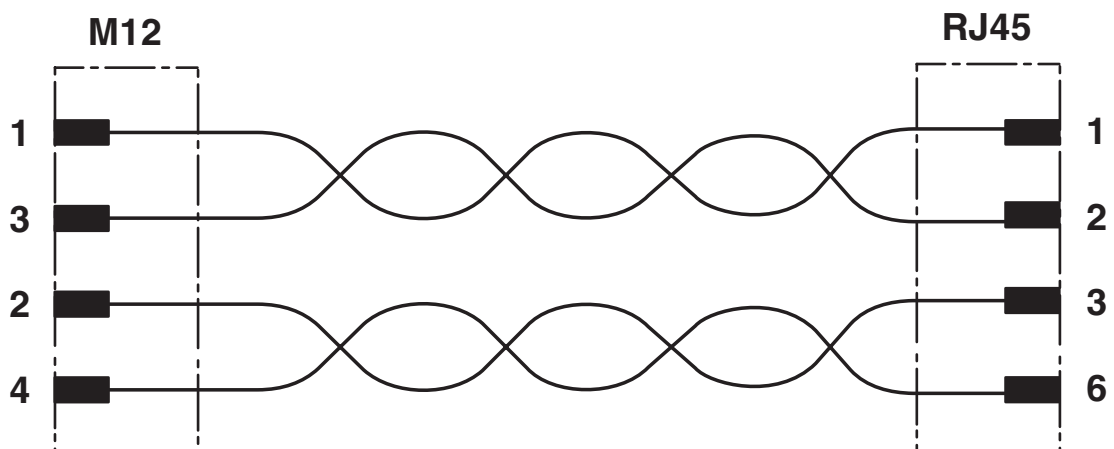
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Schematic diagram



Connector pin assignment plug RJ45

Circuit diagram



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## Approvals

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**EAC**

Approval ID: 19060508

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440103 |
| ECLASS-15.0 | 27060307 |

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 26121600 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### China RoHS

|  |  |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|  | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |  |
|-------------------------------------|--|
| REACH candidate substance (CAS No.) | 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)(CAS: 3147-75-9) |
| SCIP                                | e212201e-147b-4789-b353-d53998e725ab   |

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