

## Distributor - VS-ASI-J-Y-N-PUR-2,0-M12FS SCO - 1404443

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AS-Interface distributor with IP67 protection for one flat-ribbon conductor, with 1.0 m PUR round conductor and a molded, straight, A-coded, 2-pos. M12 SPEEDCON socket



### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 1 pc                                                                                                    |
| GTIN                                 | <br>4 046356 322270 |
| GTIN                                 | 4046356322270                                                                                           |
| Weight per Piece (excluding packing) | 95.400 g                                                                                                |
| Custom tariff number                 | 85444290                                                                                                |
| Country of origin                    | Vietnam                                                                                                 |

### Technical data

#### Dimensions

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

#### Ambient conditions

|                                         |                                                |
|-----------------------------------------|------------------------------------------------|
| Degree of protection                    | IP65                                           |
|                                         | IP67                                           |
| Ambient temperature (operation)         | -25 °C ... 75 °C                               |
|                                         | -25 °C ... 75 °C (cable, fixed installation)   |
|                                         | -5 °C ... 75 °C (cable, flexible installation) |
| Ambient temperature (storage/transport) | -25 °C ... 80 °C                               |

#### General data

|                       |     |
|-----------------------|-----|
| Rated current at 40°C | 4 A |
|-----------------------|-----|

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### Technical data

#### General data

|                       |                               |
|-----------------------|-------------------------------|
| Rated voltage         | ≤ 35 V DC                     |
| Number of positions   | 2                             |
| Standards/regulations | M12 connector IEC 61076-2-101 |
| Overvoltage category  | II                            |
| Degree of pollution   | 3                             |
| Connection method     | AS-i penetration technique    |

#### Characteristics head 1

|                                          |                                        |
|------------------------------------------|----------------------------------------|
| Head type                                | Load center lateral AS-i Screw locking |
| No. of positions (pin connector pattern) | 2                                      |
| Material (component)                     | CuZn (Contact)                         |
|                                          | Ni/Au (Contact surface)                |
|                                          | TPE-U (Contact carriers)               |
|                                          | PA-GF (Housing)                        |
|                                          | Stainless steel (Screw connection)     |
| Torque                                   | 1.65 Nm (Locking screw)                |
| Outer sheath, material                   | PUR                                    |
| External sheath, color                   | black RAL 9005                         |
| Type type, socket side                   | Socket, straight                       |

#### Characteristics head 2

|                                          |                                                 |
|------------------------------------------|-------------------------------------------------|
| Head type                                | Socket straight M12 SPEEDCON                    |
| No. of positions (pin connector pattern) | 2 (5)                                           |
| Color                                    | black                                           |
| Material (component)                     | CuSn (Contact)                                  |
|                                          | Ni/Au (Contact surface)                         |
|                                          | TPU GF (Contact carriers)                       |
|                                          | TPU (Grip)                                      |
|                                          | Zinc die-cast, nickel-plated (Screw connection) |
| Insertion/withdrawal cycles              | ≥ 100                                           |
| Torque                                   | 0.4 Nm                                          |

#### Standards and Regulations

|                          |                               |
|--------------------------|-------------------------------|
| Standards/specifications | M12 connector IEC 61076-2-101 |
|--------------------------|-------------------------------|

#### Cable

|                           |                            |
|---------------------------|----------------------------|
| Cable type                | PUR halogen-free black     |
| Cable type (abbreviation) | PUR                        |
| UL AWM style              | 20549 / 10493 (80°C/300 V) |

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## Technical data

### Cable

|                                                 |                                                                     |
|-------------------------------------------------|---------------------------------------------------------------------|
| Conductor cross section                         | 4x 0.34 mm <sup>2</sup>                                             |
| AWG signal line                                 | 22                                                                  |
| Conductor structure signal line                 | 42x 0.10 mm                                                         |
| Core diameter including insulation              | 1.27 mm ±0.02 mm                                                    |
| Thickness, insulation                           | ≥ 0.21 mm                                                           |
| Wire colors                                     | brown, white, blue, black                                           |
| Overall twist                                   | 4 wires, twisted                                                    |
| External sheath, color                          | black-gray RAL 7021                                                 |
| Outer sheath thickness                          | approx. 0.8 mm                                                      |
| External cable diameter D                       | 4.7 mm ±0.15 mm                                                     |
| Smallest bending radius, fixed installation     | 23.5 mm                                                             |
| Smallest bending radius, movable installation   | 47 mm                                                               |
| Minimum bending radius, fixed installation      | 5 x D                                                               |
| Minimum bending radius, flexible installation   | 10 x D                                                              |
| Number of bending cycles                        | 4000000                                                             |
| Bending radius                                  | 47 mm                                                               |
| Minimum bending radius, drag chain applications | 10 x D                                                              |
| Traversing path                                 | 10 m                                                                |
| Traversing rate                                 | 3 m/s                                                               |
| Acceleration                                    | 10 m/s <sup>2</sup>                                                 |
| Cable weight                                    | 30 kg/km                                                            |
| Outer sheath, material                          | PUR                                                                 |
| Material conductor insulation                   | PP                                                                  |
| Conductor material                              | Bare Cu litz wires                                                  |
| Insulation resistance                           | ≥ 1 GΩ*km                                                           |
| Conductor resistance                            | ≤ 58 Ω/km                                                           |
| Nominal voltage, cable                          | ≤ 300 V                                                             |
| Test voltage, cable                             | ≥ 3000 V                                                            |
| Special properties                              | Flexible cable conduit capable                                      |
|                                                 | Silicone-free                                                       |
|                                                 | Free of substances which would hinder coating with paint or varnish |
|                                                 | flexible                                                            |
| Flame resistance                                | according to UL 758/1581 (horizontal)                               |
|                                                 | in accordance with UL 758/1581 FT2                                  |
| Halogen-free                                    | in accordance with DIN VDE 0472 part 815                            |
|                                                 | in accordance with DIN EN 50267-2-1                                 |
| Resistance to oil                               | in accordance with DIN EN 60811-2-1                                 |

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## Technical data

### Cable

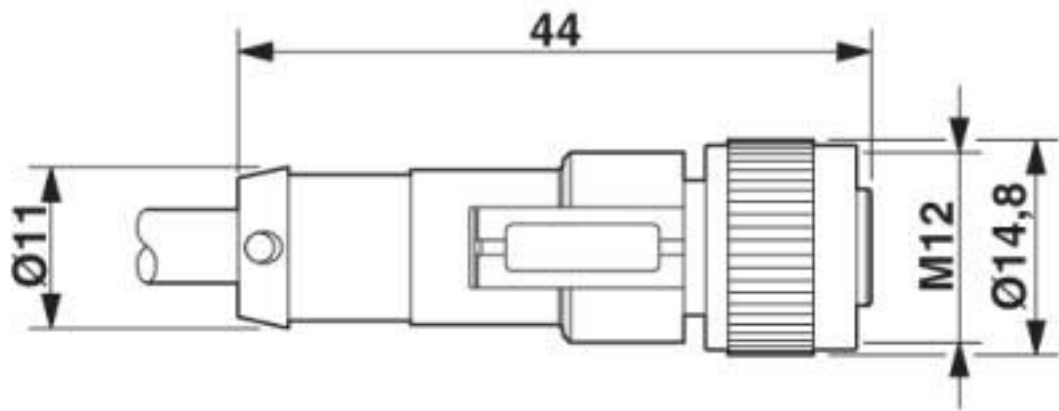
|                                 |                                                            |
|---------------------------------|------------------------------------------------------------|
| Other resistance                | Highly resistant to acids, alkaline solutions and solvents |
|                                 | hydrolysis and microbe resistant                           |
|                                 | partly UV-resistant in accordance with DIN EN ISO 4892-2-A |
|                                 | Low adhesion                                               |
|                                 | abrasion-resistant                                         |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation)               |
|                                 | -25 °C ... 80 °C (cable, flexible installation)            |

### Environmental Product Compliance

|            |                                                         |
|------------|---------------------------------------------------------|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

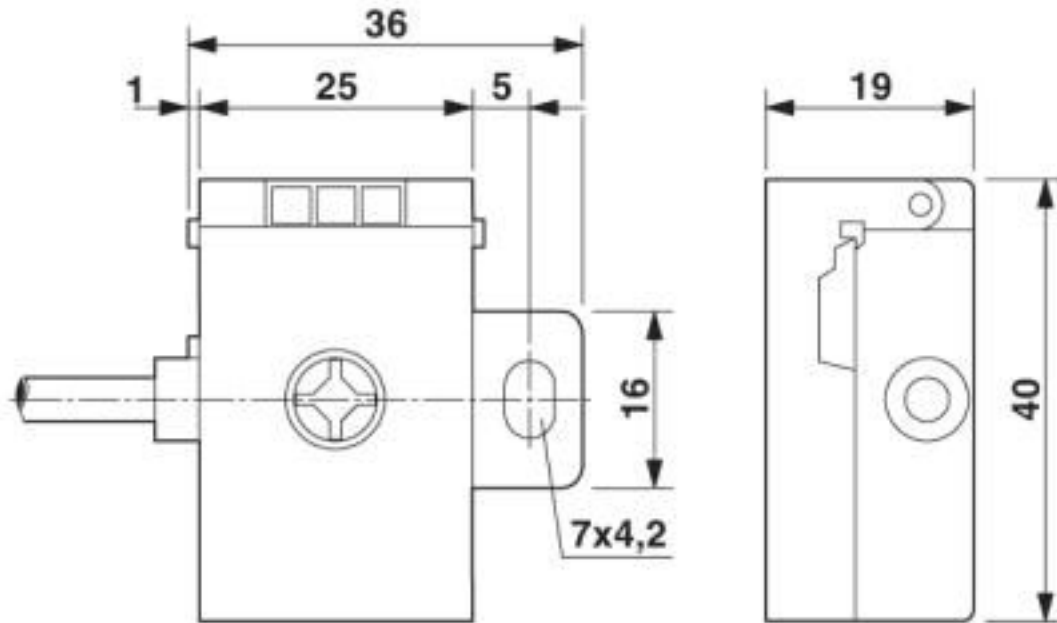
## Drawings

Dimensional drawing



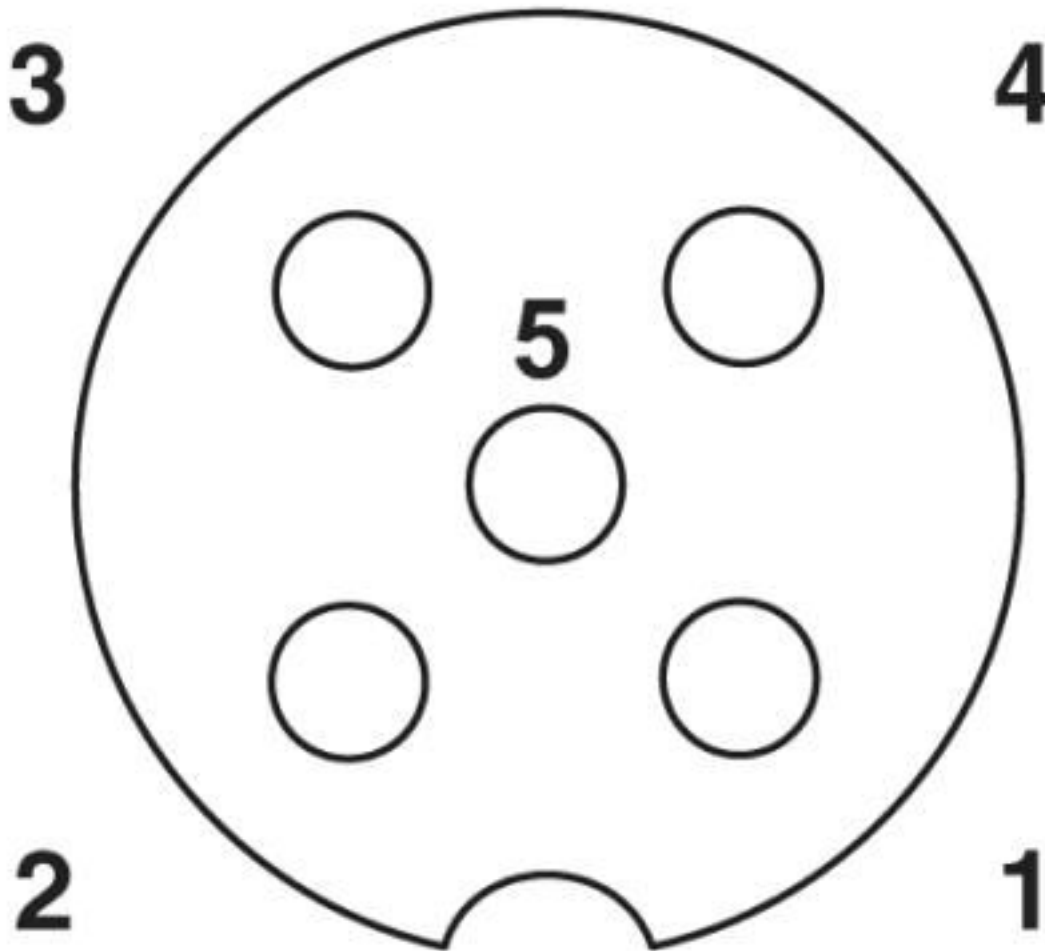
## Distributor - VS-ASI-J-Y-N-PUR-2,0-M12FS SCO - 1404443

Dimensional drawing



## Distributor - VS-ASI-J-Y-N-PUR-2,0-M12FS SCO - 1404443

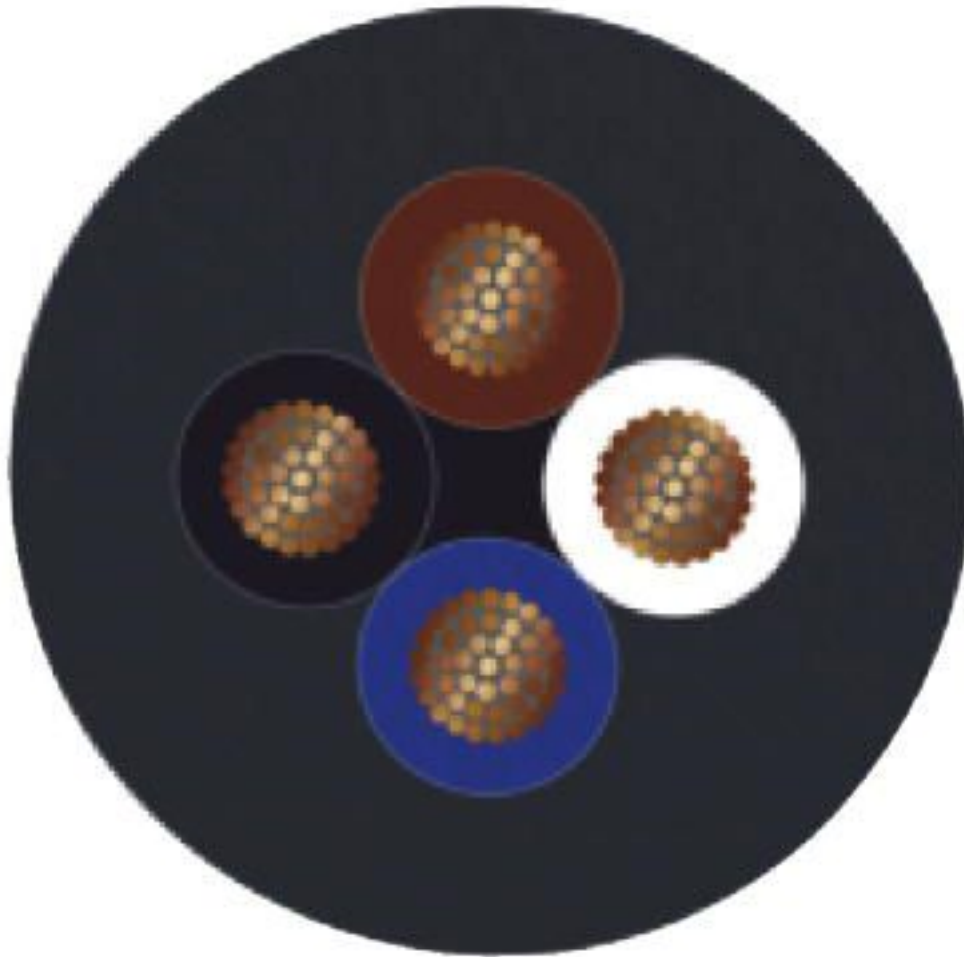
Schematic diagram



Pin assignment M12, PIN 1: AS-i +, PIN 3: AS-i -, PIN 2,4,5: Not used

## Distributor - VS-ASI-J-Y-N-PUR-2,0-M12FS SCO - 1404443

Cable cross section



PUR halogen-free black [PUR]

### Classifications

eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27140815 |
| eCl@ss 4.1 | 27140815 |
| eCl@ss 5.0 | 27143423 |
| eCl@ss 5.1 | 27143400 |
| eCl@ss 6.0 | 27143400 |
| eCl@ss 7.0 | 27449001 |
| eCl@ss 8.0 | 27279219 |

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### Classifications

eCl@ss

|            |          |
|------------|----------|
| eCl@ss 9.0 | 27440106 |
|------------|----------|

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000200 |
| ETIM 3.0 | EC001856 |
| ETIM 4.0 | EC000313 |
| ETIM 5.0 | EC000313 |
| ETIM 6.0 | EC002585 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 31261501 |
| UNSPSC 7.0901 | 31261501 |
| UNSPSC 11     | 31261501 |
| UNSPSC 12.01  | 31261501 |
| UNSPSC 13.2   | 43222814 |
| UNSPSC 19.0   | 43222814 |

### Accessories

#### Accessories

Plug for cable screw gland

Screw plug - PROT-MS SCO - 1553129



#### Screwdriver tools

Screwdriver - SZK PH2 VDE - 1205163



Screwdriver, PH crosshead, VDE insulated, size: PH 2 x 100 mm, 2-component grip, with non-slip grip

## Distributor - VS-ASI-J-Y-N-PUR-2,0-M12FS SCO - 1404443

### Accessories

Tool - SAC BIT M12-D15 - 1208432



Nut for assembling sensor/actuator cables with M12 connector and M12 connectors for assembly, with a knurl diameter of 15 mm, for 4 mm hexagonal drive

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### Torque tool

Torque screwdriver - TSD 04 SAC - 1208429



Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors