

Distributor - VS-ASI-J-Y-B-PUR-1,0-M12FR SCO - 1404469

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



AS-Interface distributor with IP67 protection for two flat-ribbon conductors, with 2.0 m PUR round conductor and a molded, angled, A-coded, 4-pos. M12 SPEEDCON socket

RoHS



Key Commercial Data

| | |
|--------------------------------------|---|
| Packing unit | 1 pc |
| GTIN |  4 046356 322294 |
| GTIN | 4046356322294 |
| Weight per Piece (excluding packing) | 65.200 g |
| Custom tariff number | 85444290 |
| Country of origin | Vietnam |

Technical data

Dimensions

| | |
|-----------------|-----|
| Length of cable | 1 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 |
|-----------------------|-----|

Distributor - VS-ASI-J-Y-B-PUR-1,0-M12FR SCO - 1404469

Technical data

General data

| | |
|-----------------------|-------------------------------|
| Rated voltage | ≤ 35 V DC |
| Number of positions | 4 |
| 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) | 4 |
| 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, angled |

Characteristics head 2

| | |
|--|---|
| Head type | Socket angled M12 SPEEDCON |
| No. of positions (pin connector pattern) | 4 (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) |

Distributor - VS-ASI-J-Y-B-PUR-1,0-M12FR SCO - 1404469

Technical data

Cable

| | |
|---|---|
| Conductor cross section | 4x 0.34 mm ² |
| 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 ² |
| 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 |

Distributor - VS-ASI-J-Y-B-PUR-1,0-M12FR SCO - 1404469

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) |

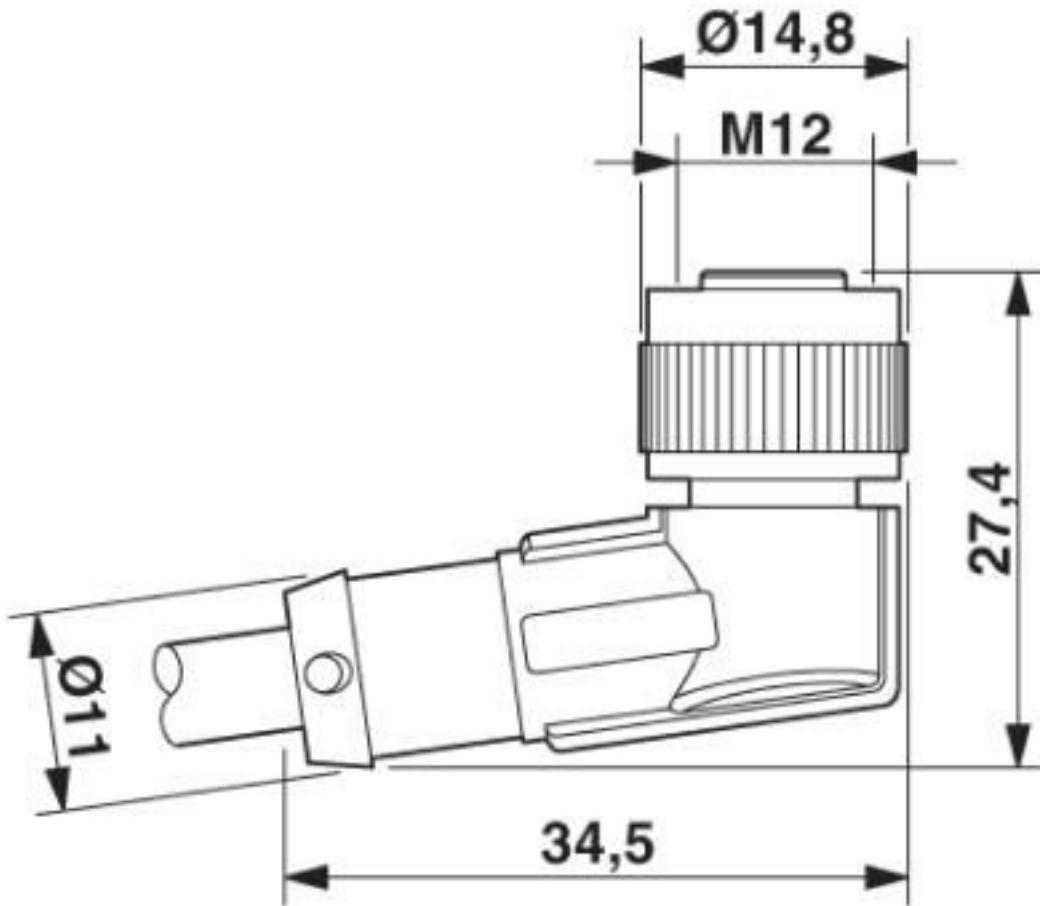
Environmental Product Compliance

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

Drawings

Distributor - VS-ASI-J-Y-B-PUR-1,0-M12FR SCO - 1404469

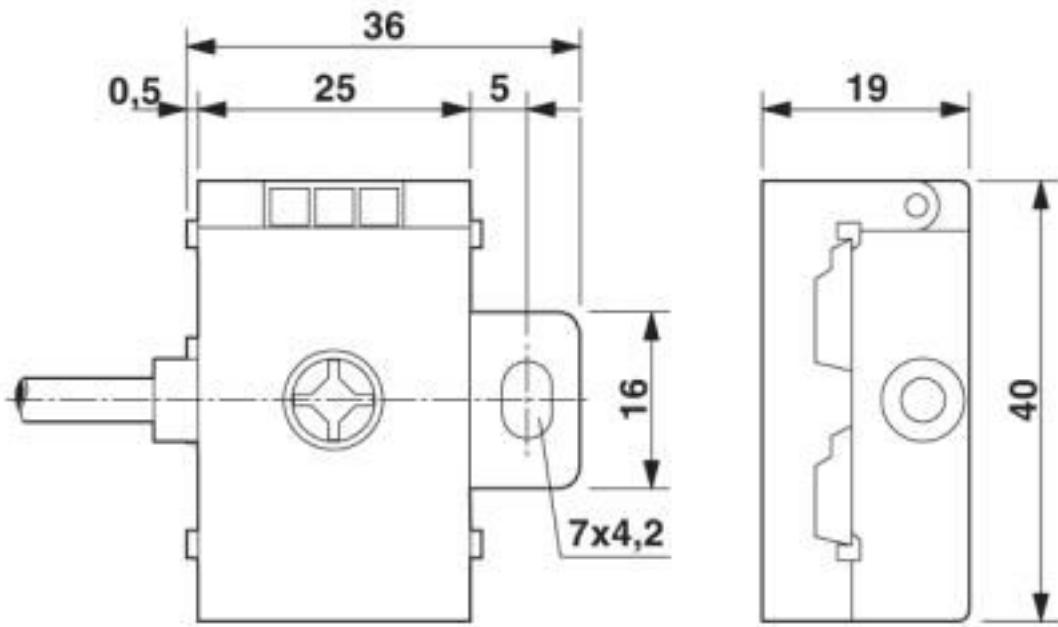
Dimensional drawing



M12 x 1 socket, angled

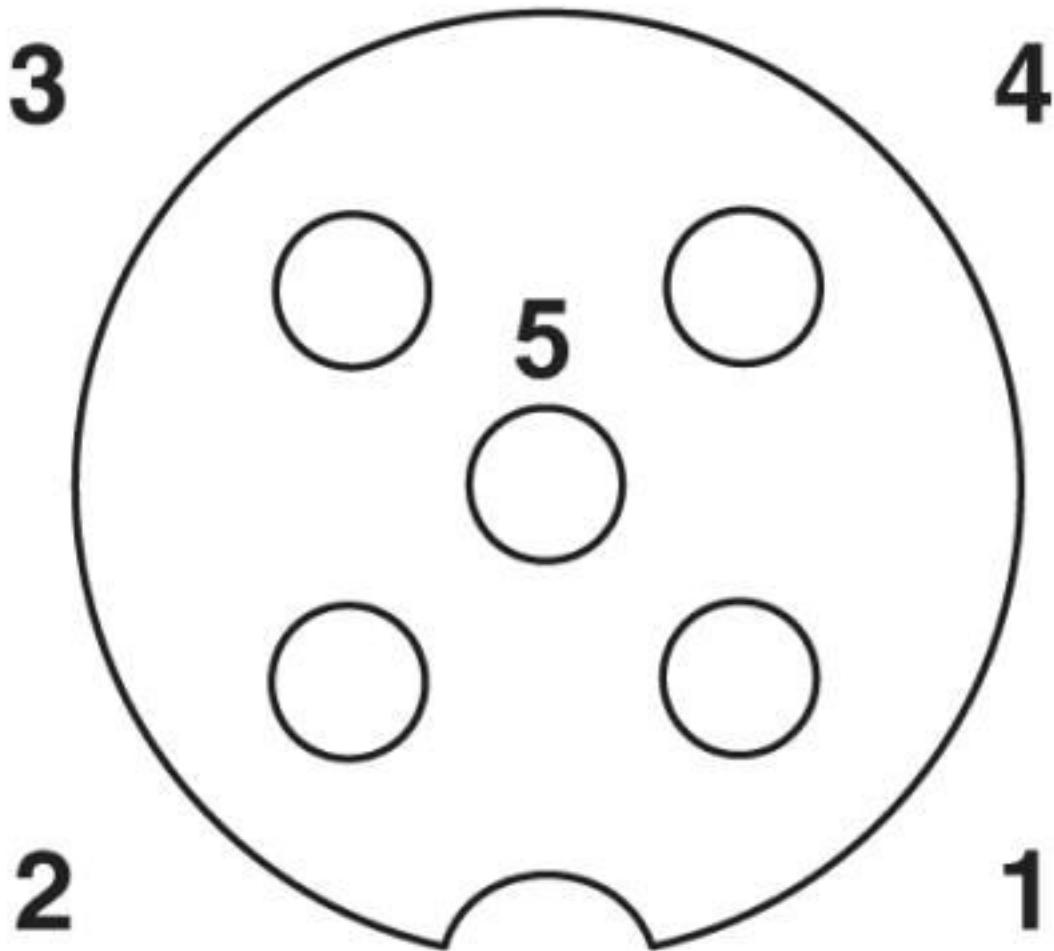
Distributor - VS-ASI-J-Y-B-PUR-1,0-M12FR SCO - 1404469

Dimensional drawing



Distributor - VS-ASI-J-Y-B-PUR-1,0-M12FR SCO - 1404469

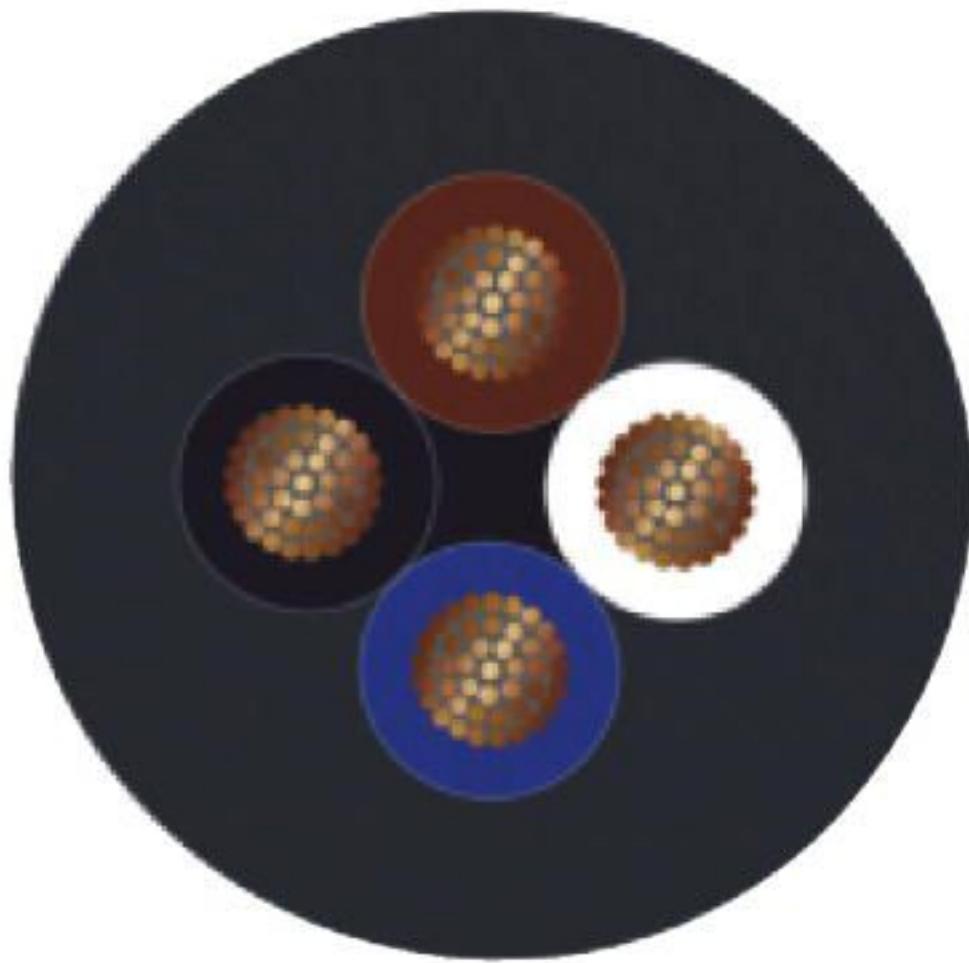
Schematic diagram



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

Distributor - VS-ASI-J-Y-B-PUR-1,0-M12FR SCO - 1404469

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 |

Distributor - VS-ASI-J-Y-B-PUR-1,0-M12FR SCO - 1404469

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-B-PUR-1,0-M12FR SCO - 1404469

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

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
