

SAC-ASI-J-Y-B-PUR-1,0-FR SCO - Distributor



1407577

<https://www.phoenixcontact.com/us/products/1407577>

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AS-Interface distributor with a high degree of protection, for a branch from two flat-ribbon conductors to a 1.0 m PUR round cable with angled M12-SPEEDCON socket

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1407577 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF10 |
| Product key | AF1GFA |
| GTIN | 4046356779975 |
| Weight per piece (including packing) | 80 g |
| Weight per piece (excluding packing) | 76.68 g |
| Customs tariff number | 85444290 |
| Country of origin | VN |

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Technical data

Product properties

| | |
|---------------------|-------------------------|
| Product type | Network distributor box |
| Number of positions | 4 |
| Coding | A |

Insulation characteristics

| | |
|----------------------|----|
| Overvoltage category | II |
| Degree of pollution | 3 |

Electrical properties

| | |
|-----------------------|----------------|
| Nominal voltage U_N | ≤ 32 V DC |
| Nominal current I_N | 4 A |
| Transmission medium | Copper |

Connection data

Connection technology

| | |
|-------------------|----------------------------|
| Connection method | AS-i penetration technique |
|-------------------|----------------------------|

Connection assignment

| | |
|---|---|
| Contact Color (signal designation) Contact (optional) | 1 (M12 socket) BN (AS-i+) 3.1 (AS-i distributors) |
| | 2 (M12 socket) WH (AUX-) 4.2 (AS-i distributors) |
| | 3 (M12 socket) BU (AS-i-) 3.2 (AS-i distributors) |
| | 4 (M12 socket) BK (AUX+) 4.1 (AS-i distributors) |
| | 5 (M12 socket) N.C. |

Interfaces

| | |
|------------|--------------|
| Bus system | AS-Interface |
|------------|--------------|

Signaling

| | |
|------------------------|----|
| Status display | no |
| Status display present | no |

Connector

Connection 1

| | |
|---------------------|--|
| Type | Load center lateral AS-i Screw locking |
| Number of positions | 4 |
| Locking type | Screw locking mechanism |
| Material | CuSn (Contact) |
| | Ni/Au (Contact surface) |
| | PBT (Contact carrier) |
| | PBT (Housing) |
| | Stainless steel (Screw connection) |

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| | |
|-------------------|-------------------------|
| Tightening torque | 1.65 Nm (Locking screw) |
|-------------------|-------------------------|

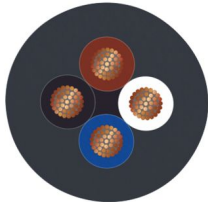
Connection 2

| | |
|---|----------------------------|
| Type | Socket angled M12 SPEEDCON |
| Number of positions | 4 (5) |
| Locking type | SPEEDCON |
| Material | CuSn (Contact) |
| | Ni/Au (Contact surface) |
| | TPU GF (Contact carrier) |
| | TPU (Grip body) |
| Zinc die-cast, nickel-plated (Screw connection) | |
| Insertion/withdrawal cycles | ≥ 100 |
| Tightening torque | 0.4 Nm |

Cable/line

| | |
|--------------|-----|
| Cable length | 1 m |
|--------------|-----|

PUR halogen-free black [PUR]

| | |
|---------------------------------|--|
| Dimensional drawing |  |
| UL AWM Style | 20549 / 10493 |
| Number of positions | 4 |
| Shielded | no |
| Cable type | PUR halogen-free black [PUR] |
| Conductor structure signal line | 42x 0.10 mm |
| AWG signal line | 22 |
| Conductor cross-section | 4x 0.34 mm ² (Signal line) |
| Wire diameter incl. insulation | 1.25 mm ±0.05 mm |
| External cable diameter | 4.30 mm ±0.2 mm |
| Outer sheath, material | PUR |
| External sheath, color | black |
| Conductor material | Bare Cu litz wires |
| Material wire insulation | PP |
| Single wire, color | brown, white, blue, black |
| Overall twist | 4 wires, twisted |
| Ambient temperature (operation) | -40 °C ... 80 °C (fixed routing) |
| | -25 °C ... 80 °C (Flexibly installed) |

Environmental and real-life conditions

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Ambient conditions

| | |
|--|---|
| Degree of protection | IP65 |
| | IP67 |
| Ambient temperature (operation) | -25 °C ... 75 °C |
| Ambient temperature (operation) (Cable, flexible installation) | -25 °C ... 80 °C (Cable, flexible installation) |
| Ambient temperature (operation) (Cable, fixed installation) | -40 °C ... 80 °C (cable, fixed installation) |
| Ambient temperature (storage/transport) | -25 °C ... 85 °C |

Standards and regulations

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

Drawings

Dimensional drawing



Distributor, AS-Interface

Dimensional drawing



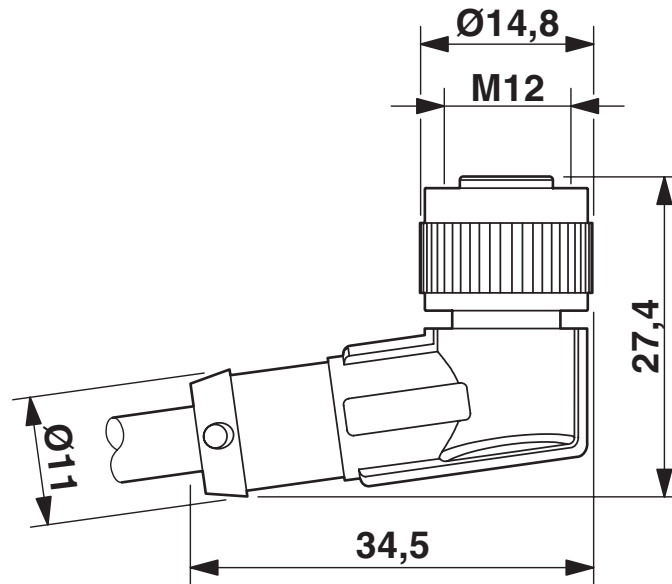
Distance and position of the mounting holes

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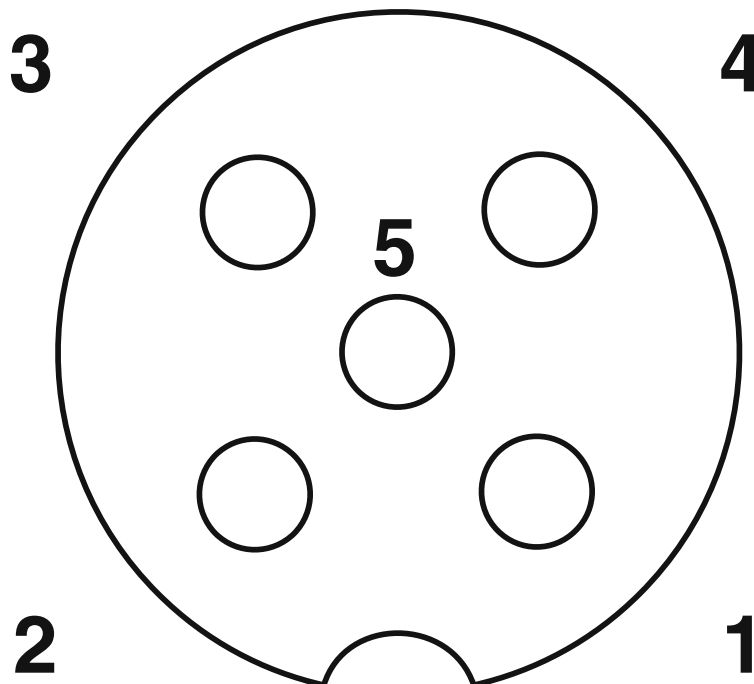
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Dimensional drawing



M12 x 1 socket, angled

Schematic diagram

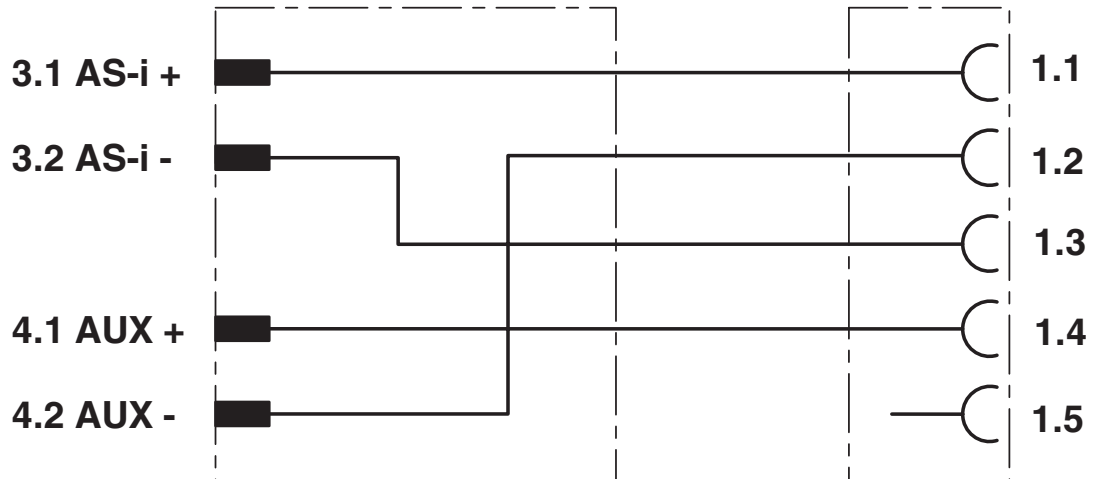


Pin assignment M12, PIN 1: AS-i +, PIN 2: AUX -, PIN 3: AS-i -, PIN 4: AUX +, PIN 5: Not used

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Circuit diagram



Contact assignment of the AS-Interface distributor

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27440106 |
| ECLASS-15.0 | 27440106 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC002925 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 31251500 |
|-------------|----------|

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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-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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