

1407576  
<https://www.phoenixcontact.com/us/products/1407576>

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AS-Interface distributor with a high degree of protection, for a branch from two flat-ribbon conductors to a 2.0 m PUR round cable with straight M12-SPEEDCON socket

Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1407576       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF10          |
| Product key                          | AF1GFA        |
| GTIN                                 | 4046356779968 |
| Weight per piece (including packing) | 105.3 g       |
| Weight per piece (excluding packing) | 105.3 g       |
| Customs tariff number                | 85444290      |
| Country of origin                    | VN            |

## 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 $U_N$ | $\leq 32$ 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)     |

# SAC-ASI-J-Y-B-PUR-2,0-FS SCO - Distributor



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

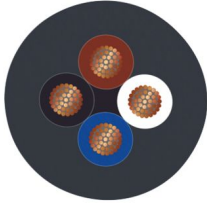
## Connection 2

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

## Cable/line

|              |     |
|--------------|-----|
| Cable length | 2 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 <sup>2</sup> (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)<br>-25 °C ... 80 °C (Flexibly installed)            |

## Environmental and real-life conditions

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## Ambient conditions

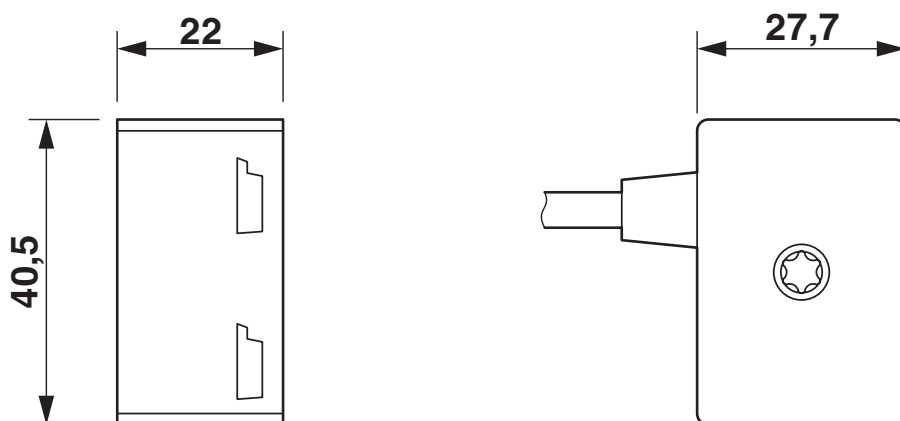
|                                                                |                                                 |
|----------------------------------------------------------------|-------------------------------------------------|
| Degree of protection                                           |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

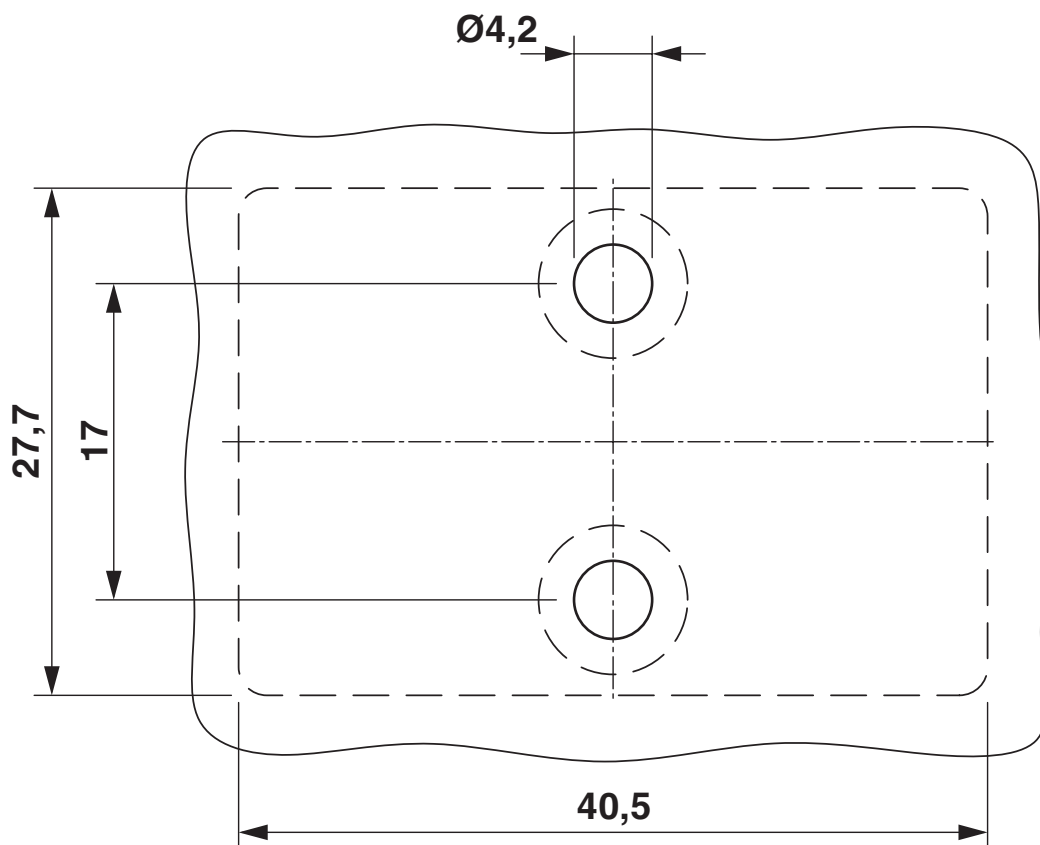
## Drawings

Dimensional drawing



Distributor, AS-Interface

Dimensional drawing



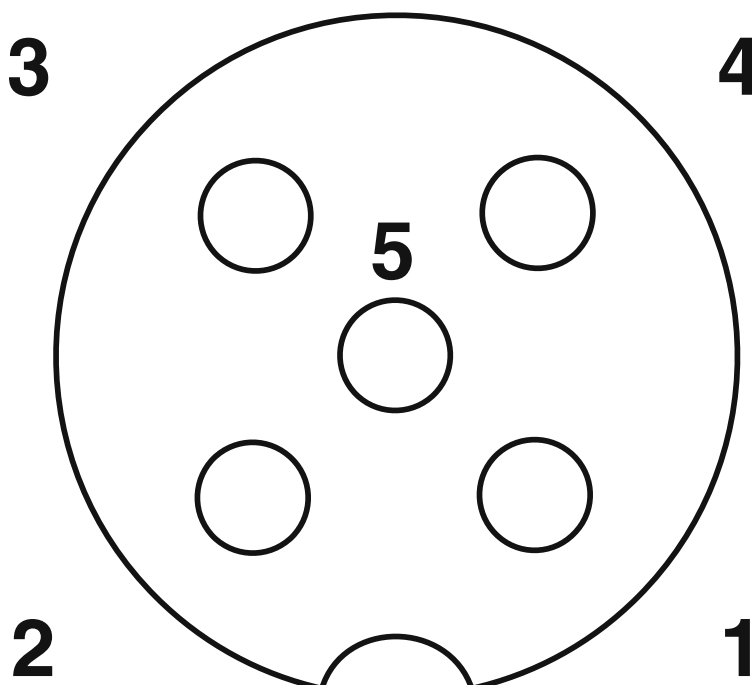
Distance and position of the mounting holes

Dimensional drawing



M12 x 1 socket, straight

Schematic diagram

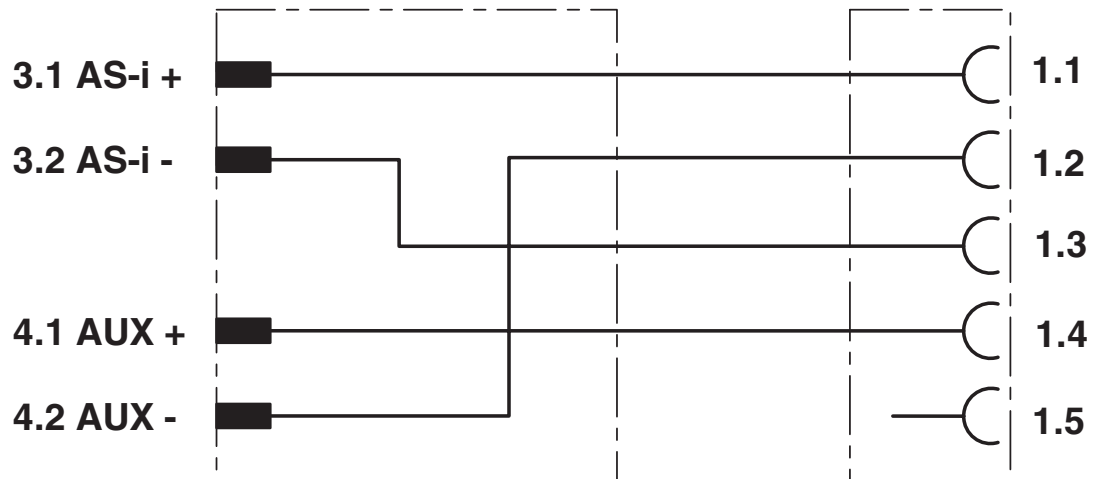


Pin assignment M12, PIN 1: AS-i +, PIN 2: AUX -, PIN 3: AS-i -, PIN 4: AUX +, PIN 5: Not used

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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 9.0 | 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% |
|-------------------------------------|----------------------------|

## EF3.0 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 6.715 kg CO2e |
|---------|---------------|

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