

SAC-3P-M12Y/2XM12FS B PE - Y distributor



1683413

<https://www.phoenixcontact.com/us/products/1683413>

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Y distributor, 4-position, unshielded, Plug straight M12, coding: A, on Socket straight M12, coding: A, PIN 2+4 bridged and Socket straight M12, coding: A, PIN 2+4 bridged

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1683413 |
| Packing unit | 5 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF10 |
| Product key | AF1GAB |
| GTIN | 4017918164171 |
| Weight per piece (including packing) | 28.9 g |
| Weight per piece (excluding packing) | 28 g |
| Customs tariff number | 85366990 |
| Country of origin | PL |

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Technical data

Notes

| | |
|---------|--|
| General | with center distance of 18 mm, suitable for molded connectors and unshielded connectors that can be assembled with QUICKON IDC terminal block connection technology and a connection range of 0.14 mm ² to 0.34 mm ² |
|---------|--|

Product properties

| | |
|----------------------|---------------|
| Product type | Y-distributor |
| Number of positions | 4 |
| No. of cable outlets | 2 |
| Shielded | no |
| Coding | A |
| Thread type | M12 |

Insulation characteristics

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

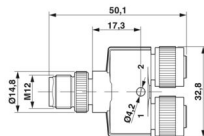
Electrical properties

| | |
|--------------------------------|--------------------|
| Insulation resistance | ≥ 100 MΩ |
| Nominal voltage U _N | 48 V AC 60 V DC |
| Nominal current I _N | 4 A |

Signaling

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

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 33 mm |
| Height | 14.8 mm |
| Length | 50.1 mm |
| Center distance | 18 mm |

Material specifications

| | |
|--|---|
| Flammability rating according to UL 94 | HB |
| Seal material | NBR |
| Material of grip body | TPU, hardly inflammable, self-extinguishing |

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| | |
|-------------------------------|------------------------------|
| Contact material | CuZn |
| Contact surface material | Ni/Au |
| Contact carrier material | TPU GF |
| Material for screw connection | Zinc die-cast, nickel-plated |

Connector

Connection 1

| | |
|-------------|-------------------|
| Type | Plug straight M12 |
| Coding type | A |

Connection 2

| | |
|-------------|---------------------|
| Type | Socket straight M12 |
| Coding type | A |

Connection 3

| | |
|-------------|---------------------|
| Type | Socket straight M12 |
| Coding type | A |

Mechanical properties

Mechanical data

| | |
|-----------------------------|-------|
| Insertion/withdrawal cycles | ≥ 100 |
|-----------------------------|-------|

Environmental and real-life conditions

Ambient conditions

| | |
|---|----------------------------------|
| Degree of protection | IP65 |
| | IP67 |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 90 °C (Plug / socket) |

Standards and regulations

M12

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

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Drawings

Dimensional drawing



M12 Y distributor

Schematic diagram



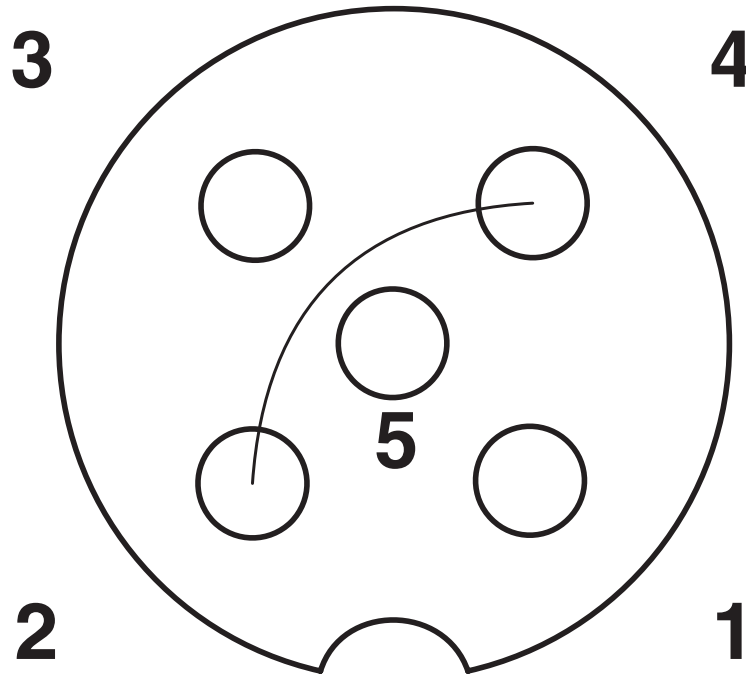
Pin assignment M12 male connector, 5-pos., A-coded, male side

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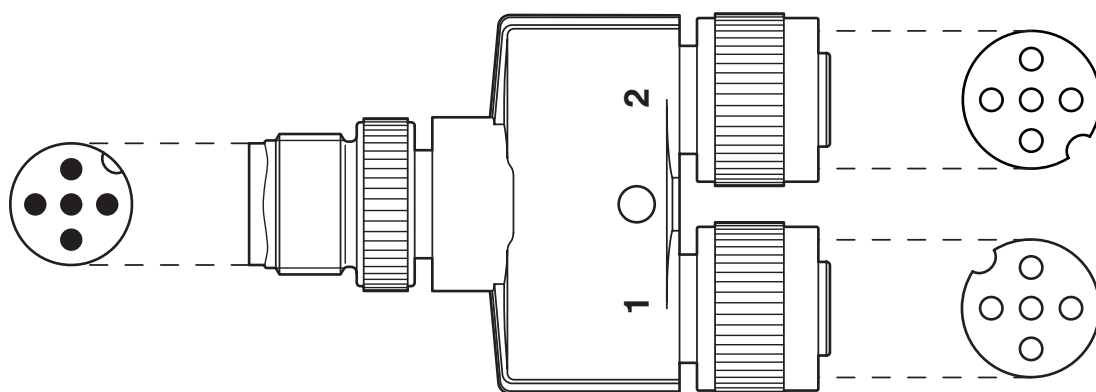
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Schematic diagram



Connector pin assignment M12 socket, 3-pos., bridged, with PE, A-coded, female side view

Schematic diagram

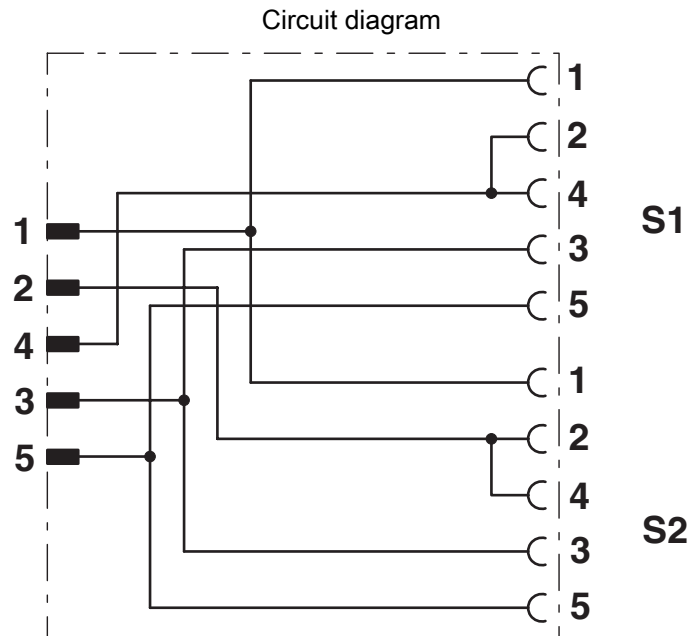


Layout of connector pin assignments

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Contact assignment of the M12 Y distributor

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1683413>



EAC

Approval ID: RU C-DE.AI30.B.01102



UL Listed

Approval ID: E221474

| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|-------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine | | | | |
| | 30 V | 4 A | - | - |



cUL Listed

Approval ID: E221474

| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|-------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine | | | | |
| | 30 V | 4 A | - | - |

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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-E |
| | No hazardous substances above the limits |

EU REACH SVHC

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

EF3.1 Climate Change

| | |
|---------|---------------|
| CO2e kg | 1.045 kg CO2e |
|---------|---------------|

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