

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

1683413

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



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 documentation. Our general terms of use for downloads are valid.

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

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



1683413

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

## 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 <sup>2</sup> to 0.34 mm <sup>2</sup>
---------	--

### 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 <sub>N</sub>	48 V AC
Nominal current I <sub>N</sub>	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

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

1683413

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



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

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

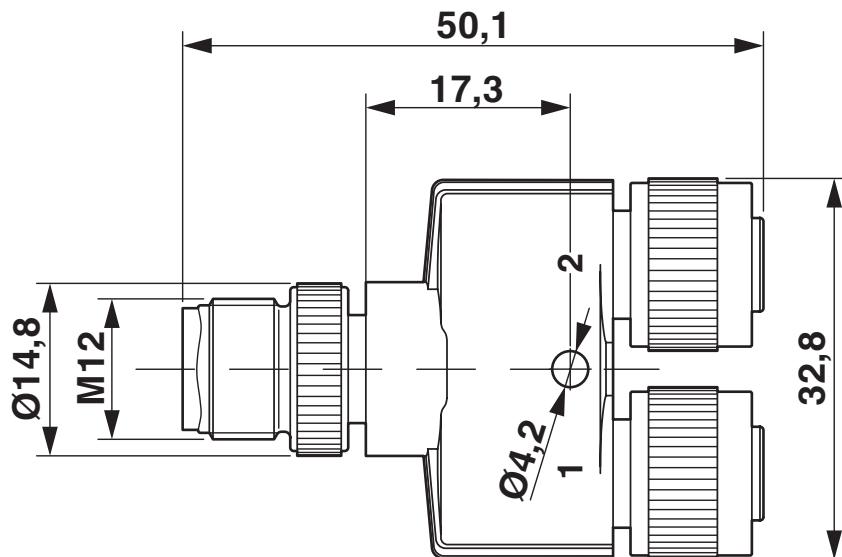
1683413

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



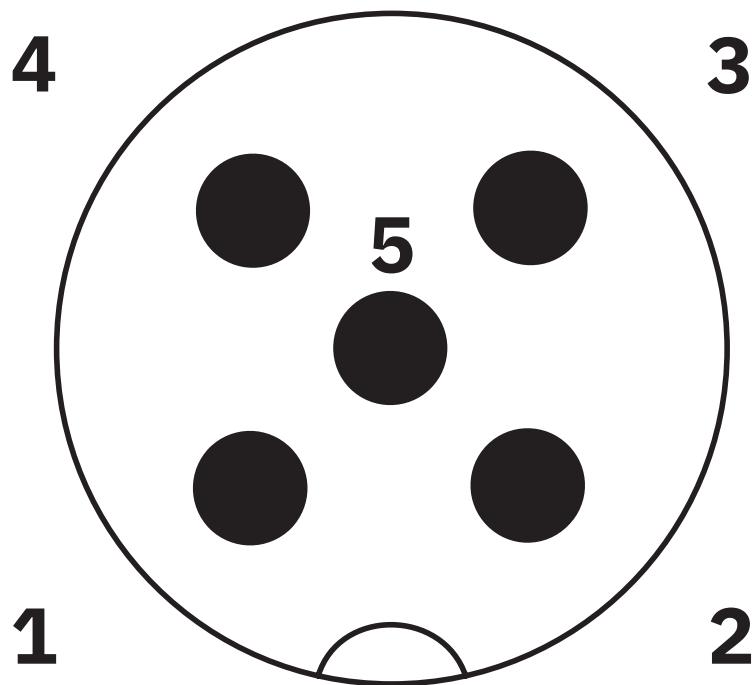
## Drawings

Dimensional drawing



M12 Y distributor

Schematic diagram



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

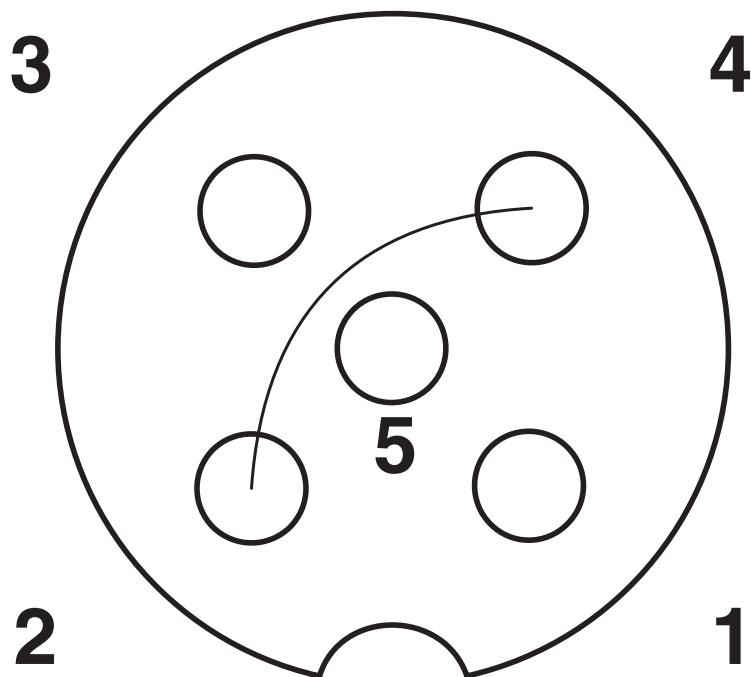
# SAC-3P-M12Y/2XM12FS B PE - Y distributor

1683413

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

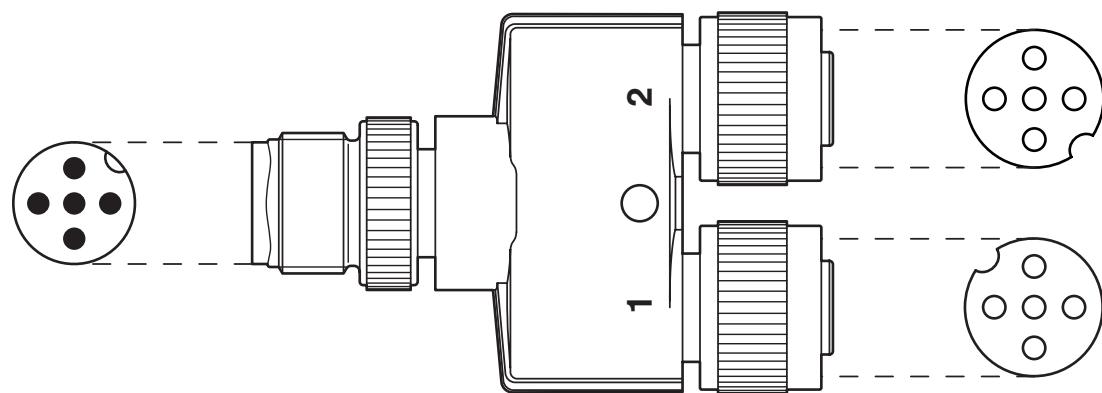


Schematic diagram



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

Schematic diagram



Layout of connector pin assignments

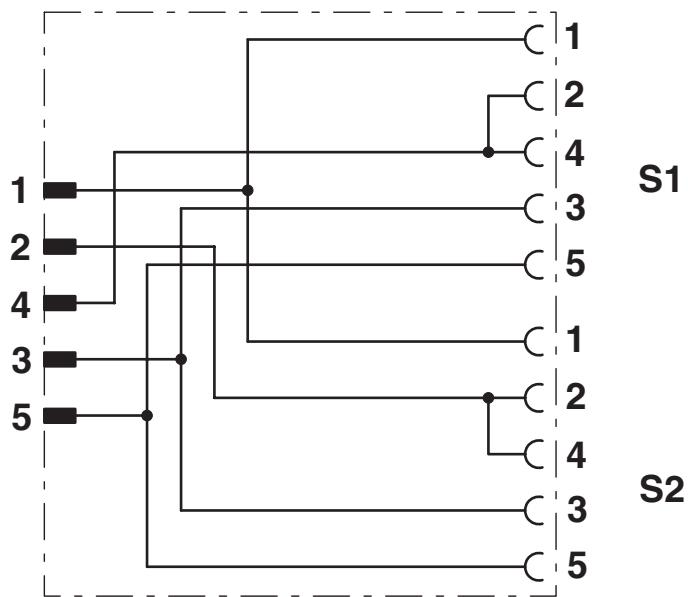
# SAC-3P-M12Y/2XM12FS B PE - Y distributor

1683413

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



Circuit diagram



Contact assignment of the M12 Y distributor

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

1683413

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



## Approvals

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

	<b>EAC</b>	Approval ID: RU C-DE.AI30.B.01102
--	------------	-----------------------------------

<b>UL Listed</b> Approval ID: E221474				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine	30 V	4 A	-	-

<b>cUL Listed</b> Approval ID: E221474				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine	30 V	4 A	-	-

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

1683413

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



## Classifications

### ECLASS

ECLASS-13.0	27440106
ECLASS-15.0	27440106

### ETIM

ETIM 9.0	EC002925
----------	----------

### UNSPSC

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

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

1683413

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



## 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%
-------------------------------------	----------------------------

### EF3.0 Climate Change

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

Phoenix Contact 2025 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA

586 Fulling Mill Road

Middletown, PA 17057, United States

(+717) 944-1300

[info@phoenixcon.com](mailto:info@phoenixcon.com)