

1412018
<https://www.phoenixcontact.com/us/products/1412018>

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Contact carrier, 17-position, Socket, straight, M12, coding: A, PCB mounting, SMD reflow, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1238963

Your advantages

- Reduced mounting costs thanks to two-piece device connector
- Packaging available for automated pick and place assembly
- All common pin assignments and codings available
- Easy device integration thanks to mechanical port screw connections with threaded attachment, press-in contour or direct integration in the front plate

Commercial data

Item number	1412018
Packing unit	100 pc
Minimum order quantity	100 pc
Sales key	AB23
Product key	ABQBGH
GTIN	4046356992916
Weight per piece (including packing)	6.7 g
Weight per piece (excluding packing)	6.7 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Notes

Notes on operation	The electrical and mechanical data specified assume that the connector pair is correctly locked and mounted. If the connector is unlocked and if there is a danger of contamination, the connector must be sealed using a protective cap > IP54. Influences arising from litz wires, cables or PCB assembly must also be taken into consideration.
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Product properties

Product type	Contact insert
Application	Signal
Number of positions	17
Shielded	yes
Coding	A
Thread type	M12

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	0.8 kV
Contact resistance	$\leq 3 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	30 V
Nominal current I_N	1.5 A

Connection data

Connection method	SMD reflow
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Material specifications

Flammability rating according to UL 94	V0
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA

Connector

Connection 1

Head design	Socket
Head cable outlet	straight
Head thread type	M12
Coding	A

SACC-CI-M12FS-17P SMD SH R32 - Contact carrier



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Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 100
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Environmental and real-life conditions

Ambient conditions

Degree of protection (when plugged in)	IP67 (correctly plugged in and locked)
Degree of protection	IP67 (correctly plugged in and locked)
	IP67, when plugged in
Ambient temperature (operation)	-55 °C ... 105 °C (Plug / socket)
	-55 °C ... 105 °C (without mechanical actuation)

Standards and regulations

M12

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101
Note	In line with

Mounting

Mounting type	PCB mounting
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Packaging specifications

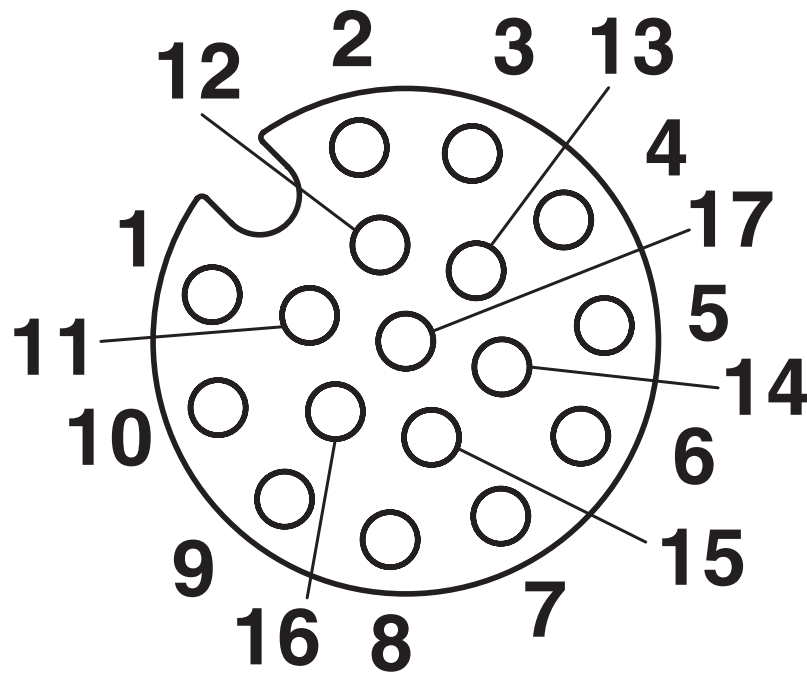
Type of packaging	Belt
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Drawings

Schematic diagram



Pin assignment of M12 socket, 17-pos., A-coded, view of socket side

Approvals

 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1412018>

 cULus Recognized Approval ID: E221474-20160506				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	30 V	1.5 A	-	-

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Classifications

ECLASS

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116

ETIM

ETIM 9.0	EC002635
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)
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.)	Lead(CAS: 7439-92-1)
SCIP	602a2b9f-9d47-494f-bd51-4b3b2aa1dbbd

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Accessories

SACC-CI-M12FS-17P SMD SH-SP - Sample set

1418641

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Sample set, 17-position, Socket, straight, M12, coding: A, PCB mounting, SMD, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239205

SACC-BP-F-M12/M15-6-SMD - Housing screw connection

1414021

<https://www.phoenixcontact.com/us/products/1414021>



Housing screw connection, Socket, M12, Rear mounting, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239058

SACC-CI-M12FS-17P SMD SH R32 - Contact carrier



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SACC-BP-F-M12/M15-6-SMD SCO - Housing screw connection

1414023

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Housing screw connection, Socket, M12-SPEEDCON, Rear mounting, M15 x 1, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239059

SACC-FP-F-M12/M14 SMD - Housing screw connection

1412079

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M12 female connector, front mounting SMD with M14 screw fastening

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SACC-FP-F-M12/PRESS SMD - Housing screw connection

1412081

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Housing screw connection, Socket, M12, Front mounting, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1238973

SACC-BP-F-M12/SMD-0,9/1,6-9TIP - Housing screw connection

1419569

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Housing screw connection, Socket, M12, Rear mounting, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239268

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SACC-BP-F-M12/SMD-1,6/2,3-9TIP - Housing screw connection

1419570

<https://www.phoenixcontact.com/us/products/1419570>

Housing screw connection, Socket, M12, Rear mounting



SACC-BP-F-M12/SMD-2,3/3,0-9TIP - Housing screw connection

1419571

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Housing screw connection, Socket, M12, Rear mounting, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239270



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SACC-BP-F-FIX/NUT-BK-SMD - Fixing sleeve

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Fixing sleeve for M12 housing screw connection with tolerance-compensating function, for SMD-solderable M12 socket contact inserts.

SACC-BP-F-FIX/NUT-CY-SMD - Fixing sleeve

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Fixing sleeve for M12 housing screw connection with tolerance-compensating function, for SMD-solderable M12 socket contact inserts.

SACC-CI-M12FS-17P SMD SH R32 - Contact carrier



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SACC-BP-F-FIX/NUT-GN-SMD - Fixing sleeve

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Fixing sleeve for M12 housing screw connection with tolerance-compensating function, for SMD-solderable M12 socket contact inserts.

SACC-BP-F-FIX/NUT-VT-SMD - Fixing sleeve

1419567

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Fixing sleeve for M12 housing screw connection with tolerance-compensating function, for SMD-solderable M12 socket contact inserts.

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