

#### 1441749

https://www.phoenixcontact.com/us/products/1441749

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.



Device connector rear mounting, 4-position, Pin, M12, coding: D, Rear mounting, M16 x 1.5, Solder pins, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239733

## Your advantages

- · Easy PCB assembly: one-piece connectors for wave soldering
- · All standard pin assignments and codings for signal, data, and power transmission with a uniform design-in design
- · SPEEDCON fast locking system reduces cabling times

## Commercial data

Item number	1441749
Packing unit	20 pc
Minimum order quantity	20 pc
Note	Made to order (non-returnable)
Sales key	AB26
Product key	ABQEGJ
Catalog page	Page 250 (C-2-2013)
GTIN	4046356533447
Weight per piece (including packing)	14.05 g
Weight per piece (excluding packing)	14.05 g
Customs tariff number	85366990
Country of origin	DE



https://www.phoenixcontact.com/us/products/1441749

# 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.
Order information:	Lock nut is included in the scope of delivery

### Mounting

Mounting type	Rear mounting M16 x 1.5 With flat nut
Assembly note	With flat nut

### **Product properties**

Product type	Circular connectors (device side)		
Number of positions	4		
Shielded	no		
Coding	D		
Thread type	M12		
Insulation characteristics			
Overvoltage category	II		
Degree of pollution	3		

#### Dimensions

Length of the solder pin	6 mm
	6 mm

#### Material specifications

Flammability rating according to UL 94	V0
Seal material	NBR
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA 6.6
Material for screw connection	Zinc die-cast, nickel-plated

#### **Electrical properties**

Rated surge voltage	2.5 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U <sub>N</sub>	250 V
Nominal current I <sub>N</sub>	4 A



https://www.phoenixcontact.com/us/products/1441749

### Connection data

Conductor connection	
Connection method	Solder pins
Contact connection type	Pin
Tightening torque	3 Nm 4 Nm (Installation-side)
Mechanical properties	
Mechanical data	
Insertion/withdrawal cycles	> 100
Connector Connection 1	
Head design	Pin
Head thread type	M12
Coding	D
Cable/line	
Ambient temperature (operation)	-40 °C 85 °C (cable, fixed installation)
	-25 °C 85 °C (Cable, flexible installation)

## Environmental and real-life conditions

Ambient conditions	
Degree of protection	IP67 (When plugged in)
	IP65 (When plugged in)
	IP65/IP67
Ambient temperature (operation)	-25 °C 85 °C (Plug / socket)
	-40 °C 85 °C (without mechanical actuation)
	-25 °C 85 °C (Cable, flexible installation)
	-40 °C 85 °C (cable, fixed installation)

#### Standards and regulations

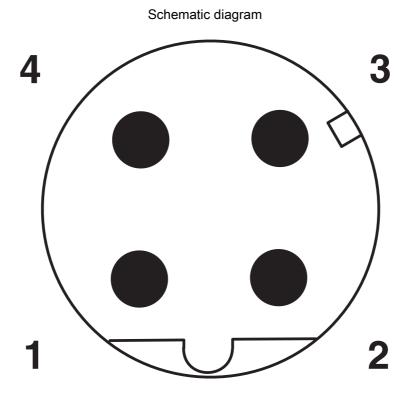
Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101



1441749

https://www.phoenixcontact.com/us/products/1441749

## Drawings



Pin assignment M12 male connector, 4-pos., D-coded, male side



1441749

https://www.phoenixcontact.com/us/products/1441749

## Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1441749

.91	<b>cUL Recognized</b> Approval ID: E118976-20	0100522			
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		250 V	4 A	22 - 22	-
<b>R</b>	UL Recognized Approval ID: E118976-20	1100522			
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		250 V	4 A	22 - 22	-
c <b>911</b> us	<b>cULus Recogniz</b> Approval ID: E221474				
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		250 V	4 A	22 - 20	-

cULus Recognized



https://www.phoenixcontact.com/us/products/1441749

## Classifications

### ECLASS

	ECLASS-11.0	27440102			
	ECLASS-12.0	27440116			
	ECLASS-13.0	27440116			
ΕT	ETIM				
	ETIM 9.0	EC002635			
UNSPSC					
	UNSPSC 21.0	39121400			



https://www.phoenixcontact.com/us/products/1441749

# 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	bfe342ea-efbf-41e4-a897-f43328b8448c



1441749

https://www.phoenixcontact.com/us/products/1441749

Accessories

SACC-M16-SEAL CLM - Flat gasket

1430394 https://www.phoenixcontact.com/us/products/1430394

M16 flat gasket for M12 flush-type connectors with M16 fastening thread



### PROT-M12 FS - Sealing cap

1560251 https://www.phoenixcontact.com/us/products/1560251



M12 sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field



1441749

https://www.phoenixcontact.com/us/products/1441749

PROT-M12 FS-M - Sealing cap

#### 1430488

https://www.phoenixcontact.com/us/products/1430488



M12 metal sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field

Phoenix Contact 2024 © - 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