

1441752

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Device connector rear mounting, 4-position, Socket, M12, coding: D, Rear mounting, M16 x 1.5, Wave soldering, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0. 1 %) item no.: 1239734

### 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	1441752
Packing unit	20 pc
Minimum order quantity	20 pc
Note	Made to order (non-returnable)
Sales key	AB26
Product key	ABQEHJ
Catalog page	Page 250 (C-2-2013)
GTIN	4046356533935
Weight per piece (including packing)	14.13 g
Weight per piece (excluding packing)	14.13 g
Customs tariff number	85366990
Country of origin	DE



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## 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 instructions	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



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### Connection data

Conductor connection				
Connection method	Wave soldering			
Contact connection type	Socket			
Tightening torque	3 Nm 4 Nm (Installation-side)			
Mechanical properties				
Mechanical data				
Insertion/withdrawal cycles	> 100			
Connector Connection 1				
Head design	Socket			
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

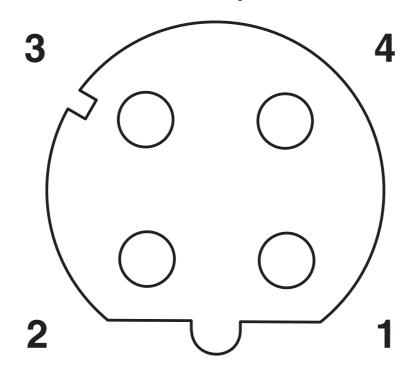


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Drawings

Schematic diagram



Pin assignment M12 socket, 4-pos., D-coded, female side



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## Approvals

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<b>.91</b>	<b>cUL Recognized</b> Approval ID: E118976-20	100522			
		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	-
	UL Recognized Approval ID: E118976-20	100522			
		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	-
0 <b>91</b> 105	<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



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## Classifications

### ECLASS

	ECLASS-11.0	27440102		
	ECLASS-12.0	27440116		
	ECLASS-13.0	27440116		
ET	ETIM			
	ETIM 9.0	EC002635		
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	b9a2dcc8-bd51-471a-bdaf-248857a28570



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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 - Screw plug

1680539 https://www.phoenixcontact.com/us/products/1680539



An M12 screw plug for the unoccupied M12 sockets of the sensor/actuator cable, boxes and flush-type connectors



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PROT-M12 SH - Screw plug

#### 1503302

https://www.phoenixcontact.com/us/products/1503302



An M12 screw plug for the unoccupied M12 sockets of the shielded sensor/actuator cable, boxes and flush-type connectors

#### PROT-M12 FB - Screw plug

1555538 https://www.phoenixcontact.com/us/products/1555538



M12 high-grade steel screw plug, for unoccupied M12 sockets of the sensor/actuator cables, boxes and flush-type connectors for the food industry

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