

1404741

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Device connector rear mounting, Ethernet CAT6 $_{\rm A}$  (10 Gbps), 8-position, Socket, straight, M12-SPEEDCON, X-coding, Wave soldering, this item is expected to be lead-free from Q2 2026 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

#### 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
- · For high transmission reliability: optional shield connection to the housing by means of shield contact

#### Commercial data

Item number	1404741
Packing unit	20 pc
Minimum order quantity	20 pc
Sales key	AB26
Product key	ABQEHL
GTIN	4046356737029
Weight per piece (including packing)	15.752 g
Weight per piece (excluding packing)	14.775 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 assumes that the connector pair is correctly locked and mounted. If the connector is unlocked and if there is a danger of pollution, the connector must be sealed using a protective cap >IP54. Influences arising from litz wires, cables, or PCB mounting must also be taken into consideration. Additional mechanical fixing of the PCB is required.
Order information:	Lock nut is included in the scope of delivery

### Mounting

Mounting type	Rear mounting (Pg9)
Tightening torque	2 Nm 3 Nm

#### Product properties

Product type	Circular connectors (device side)
Application	Data
Sensor type	Ethernet
Number of positions	8
Shielded	yes
Coding	X
Thread type	M12

#### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

#### **Dimensions**

Length of the solder pin	6 mm
	6 mm

#### Material specifications

Material Housing	GD-Zn
Material Housing surface	Ni
Material Insulating body	PPA
Material Contact	CuZn
Material Contact surface	Au
Material Seal	FKM
Flammability rating according to UL 94	V0

#### Electrical properties

Rated surge voltage	0.8 kV
Contact resistance	≤ 3 mΩ



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Insulation resistance	> 100 MΩ
Nominal voltage U <sub>N</sub>	50 V AC
	60 V DC
Nominal current I <sub>N</sub>	0.5 A (Data)
Transmission speed	10 Gbps
Transmission characteristics (category)	CAT6 <sub>A</sub>

#### Connection data

#### Conductor connection

Connection method	Wave soldering
Contact connection type	Socket
Tightening torque	2 Nm 3 Nm

#### Mechanical properties

#### Mechanical data

moona.noar aata		
Insertion/withdrawal cycles	≥ 100	

#### Connector

#### Connection 1

Head design	Socket
Head cable outlet	straight
Head thread type	M12
Head locking type	SPEEDCON
Coding	X

#### Cable/line

Signal type/category	Ethernet CAT6 <sub>A</sub> , 10 Gbps
0 11 0 1	A' '

#### Environmental and real-life conditions

#### Ambient conditions

Degree of protection	IP67 (When plugged in)
Ambient temperature (operation) (male connector/female connector)	-40 °C 85 °C
UL Type Rating	Type 4 (indoor use only)

#### Standards and regulations

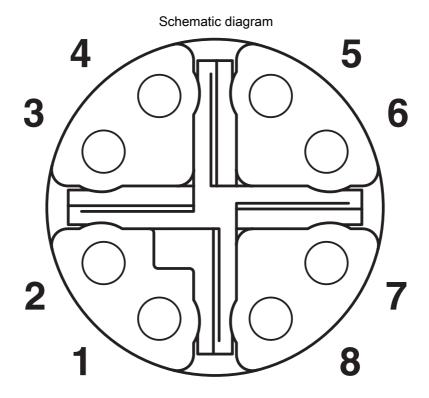
Standard designation	M12 circular connector
Standards/specifications	according to IEC 61076-2-109
Standard designation	Shock, vibration
Standards/specifications	according to EN 50155
Standard designation	Shock, vibration
Standards/specifications	according to EN 61373:2011



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## Drawings



M12 socket pin assignment, 8-pos, view of socket side



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## Approvals

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. <b>91</b>	cUL Recognized Approval ID: E335024-20	1120308			
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
keine					
		60 V	0.5 A	-	-

7/	UL Recognized Approval ID: E335024-20	0120308			
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
keine					
		60 V	0.5 A	-	-



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### Classifications

#### **ECLASS**

ECLASS-13.0	27440110
ECLASS-15.0	27440110
TIM	

### ETIM

ETIM 9.0	EC003568

#### **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	b720dd2e-e3ac-46c1-b1fd-36d4e51c5d3c

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