

# SACC-DSI-FSD-4CON-L180/SH TQ - Device connector rear mounting



1456527

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Device connector rear mounting, Ethernet CAT5 (100 Mbps), 4-position, Socket, straight, M12-SPEEDCON, D-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	1456527
Packing unit	20 pc
Minimum order quantity	1 pc
Sales key	AB26
Product key	ABQEHB
GTIN	4046356617185
Weight per piece (including packing)	14.2 g
Weight per piece (excluding packing)	13.259 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)
Tightening torque	3 Nm ... 4 Nm (Installation-side)

### Product properties

Product type	Circular connectors (device side)
Application	Data
Number of positions	4
Shielded	yes
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

Material Housing	GD-Zn
Material Housing surface	Ni
Material Contact carrier	PA 6.6
Material Contact	CuZn
Material Contact surface	Ni/Au
Material Seal	NBR
Flammability rating according to UL 94	V0

### Electrical properties

Rated surge voltage	2.5 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ

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Nominal voltage $U_N$	48 V AC
	60 V DC
Nominal current $I_N$	4 A
Transmission speed	100 Mbps
Transmission characteristics (category)	CAT5 (IEC 11801:2002)

## 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	$\geq 100$
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## Connector

### Connection 1

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

## Cable/line

Signal type/category	Ethernet CAT5, 100 Mbps
Wire diameter incl. insulation	1 mm

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP67 (When plugged in)
	IP65 (When plugged in)
Ambient temperature (operation) (fixed installation)	-40 °C ... 70 °C (Plug / socket)
Ambient temperature (operation) (flexible installation)	-50 °C ... 70 °C (Cable, flexible installation)
Ambient temperature (operation) (male connector/female connector)	-20 °C ... 60 °C (cable, fixed installation)
UL Type Rating	Type 4 (indoor use only)

## Standards and regulations

Standard designation	M12 circular connector
Standards/specifications	according to 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>UL Recognized</b> Approval ID: E118976-20100522				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	250 V	4 A	22	-

 <b>cULus Recognized</b> Approval ID: E221474-20140616				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	250 V	4 A	-	-

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## Classifications

### ECLASS

ECLASS-13.0	27440110
ECLASS-15.0	27440110

### ETIM

ETIM 10.0	EC003568
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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.
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### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	cc2c59bc-2997-48c1-91c3-30cec86ccc3a

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