#### 1163793

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SPE PCB connector, design: IEC 63171-5, degree of protection: IP20, number of positions: 2, 10 Gbps, CAT B (ISO/IEC 63171), material: Plastic, connection method: THR solder connection, Single Pair Ethernet

### Your advantages

- Connectors in accordance with IEC 63171-2
- THR solderable
- Data transmission up to 600 MHz
- · Packaging available for automated pick and place assembly
- · Reduced mounting costs thanks to two-piece device connector

## Commercial data

Item number	1163793
Packing unit	1 pc
Minimum order quantity	100 pc
Sales key	AB13
Product key	ABNBDA
GTIN	4063151176617
Weight per piece (including packing)	5.75 g
Weight per piece (excluding packing)	5.64 g
Customs tariff number	85366990
Country of origin	DE

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## Technical data

#### Product properties

Туре	SPE
Product type	Data connector (device side)
Sensor type	Single Pair Ethernet
Number of positions	2
Type of packaging	Tape and Reel
Connection profile	SPE M8
Number of slots	1
Туре	Socket
Shielded	yes
Thread type	M8
Insulation characteristics	
Overvoltage category	1
Degree of pollution	2

#### **Electrical properties**

Rated voltage (III/2)	72 V DC
Rated surge voltage	2250 V DC
Rated surge voltage (III/2)	1500 V
Rated surge voltage	1000 V DC
Rated current	4 A
Frequency range	5 Hz 500 Hz
Insulation resistance	> 1 TΩ
Contact resistance	20 m $\Omega$ (in accordance with IEC 63171)
Transmission medium	Copper
Transmission characteristics (category)	CAT B (ISO/IEC 63171)
Transmission speed	1 Gbps
Power transmission	PoDL

#### Output data

Transmission frequency	600.00 MHz
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#### Connection data

Connection technology	
Connection method	THR solder connection
Locking mechanism tightening torque	0.2 Nm

#### Dimensions

Width	10.1 mm
Height	24 mm
Length	14.5 mm

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Installed height	21.50 mm
Orientation to	180.00 °

#### Material specifications

Material	LCP
Flammability rating according to UL 94	V0
Housing surface material	LCP
Contact material	Copper alloy
Contact surface material	Gold
Housing material	Plastic

#### Cable/line

Test voltage Core/Core	1000 V DC
Test voltage Core/Shield	2250 V DC
Halogen-free	yes
Resistance to oil	yes
Flame resistance	yes

#### Mechanical properties

Mechanical data	
Insertion/withdrawal cycles	≥ 100
Insertion force per signal contact	< 30.00 N (in accordance with IEC 63171)
Extraction force per signal contact	< 30 N (in accordance with IEC 63171)
Locking mechanism tightening torque	0.2 Nm

#### Environmental and real-life conditions

Specification IEC 63171   Cold stress -40°C	
Cold stress -40°C	
Thermal stress 85°C	
Corrosive stress IEC 60512-11-	7

Test specification

Specification	IEC 60068-2-6
Frequency	5-500 Hz
Sweep speed	1 octave/min
Amplitude	0.75 mm
Acceleration	100 m/s <sup>2</sup>
Test duration	20 s

#### Test specification

Specification	IEC 60068-2-27
Acceleration	500 m/s²
Number of shocks per direction	18



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Test specification	
Specification	IEC 60999-1
Ambient conditions	
Degree of protection	IP65/IP67 (in combination with M8 housing screw connection)
	IP20
Ambient temperature (operation)	-40 °C 85 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Resistance to oil	yes
Standards and regulations	
Resistance to oil	yes
	yes
Mounting	
Mounting type	PCB mounting
Connection method	THR solder connection
Processing notes	
Process	Reflow
Moisture Sensitive Level	MSL 1
Solder cycles in the reflow	3

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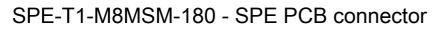
## Classifications

#### ECLASS

ECLASS-11.0	27440390
ECLASS-13.0	27440390
ECLASS-12.0	27440390

#### ETIM

	ETIM 8.0	EC001121	
UNSPSC			
	UNSPSC 21.0	39121400	



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## Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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Accessories

SACC-FP-M-M8/M10 SMD - Housing screw connection

1412502 https://www.phoenixcontact.com/us/products/1412502

Housing screw connection, Plug, M8, Front mounting, M10 x 0.75



#### SACC-BP-M-M8/M12 SMD - Housing screw connection

1412505

https://www.phoenixcontact.com/us/products/1412505



Housing screw connection, Rear mounting, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1239002

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