

# SPE-T1-STSM-180 - SPE PCB connector



1163798

<https://www.phoenixcontact.com/us/products/1163798>

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SPE PCB connector, design: IEC 63171-2, degree of protection: IP20, number of positions: 2, 1 Gbps, CAT B (ISO/IEC 63171), material: Metal, connection method: THR solder connection, cable outlet: straight, Single Pair Ethernet

## Your advantages

- Compact design for maximum space savings
- Connectors in accordance with IEC 63171-2
- THR solderable
- Robust industrial design
- 360° shielding
- Data transmission up to 600 MHz

## Commercial data

Item number	1163798
Packing unit	300 pc
Minimum order quantity	100 pc
Sales key	AB13
Product key	ABNBBA
GTIN	4063151174095
Weight per piece (including packing)	1.864 g
Weight per piece (excluding packing)	4.02 g
Customs tariff number	85366930
Country of origin	DE

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## Technical data

### Product properties

Product type	Data connector (device side)
Type	SPE
Sensor type	Single Pair Ethernet
Number of positions	2
Connection profile	SPE
Type of packaging	Tape and Reel
Number of slots	1
Type	Socket
Shielded	yes
Cable outlet	straight

### Data management status

Article revision	02
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### Insulation characteristics

Overvoltage category	I
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 current	4 A
Frequency range	600 MHz
Insulation resistance	> 1 TΩ
Transmission medium	Copper
Transmission characteristics (category)	CAT B (IEC 63171)
Transmission speed	1 Gbps
Power transmission	PoDL

### Connection data

#### Connection technology

Connection method	THR solder connection
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### Dimensions

Width	5 mm
Height	11.4 mm
Length	9.3 mm

### Material specifications

Flammability rating according to UL 94	V0
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Housing material	Metal
Contact material	Copper alloy
Contact surface material	Ni/Au
Contact carrier material	LCP

## Cable/line

Test voltage Core/Core	1000 V DC
Test voltage Core/Shield	2250.00 V DC
Halogen-free	yes
Resistance to oil	yes
Flame resistance	UL 94 V0

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	≥ 750
Insertion force per signal contact	< 1.50 N
Extraction force per signal contact	< 1.5 N

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
	IP20
Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Resistance to oil	yes

## Standards and regulations

Flame resistance	UL 94 V0
Resistance to oil	yes

## Mounting

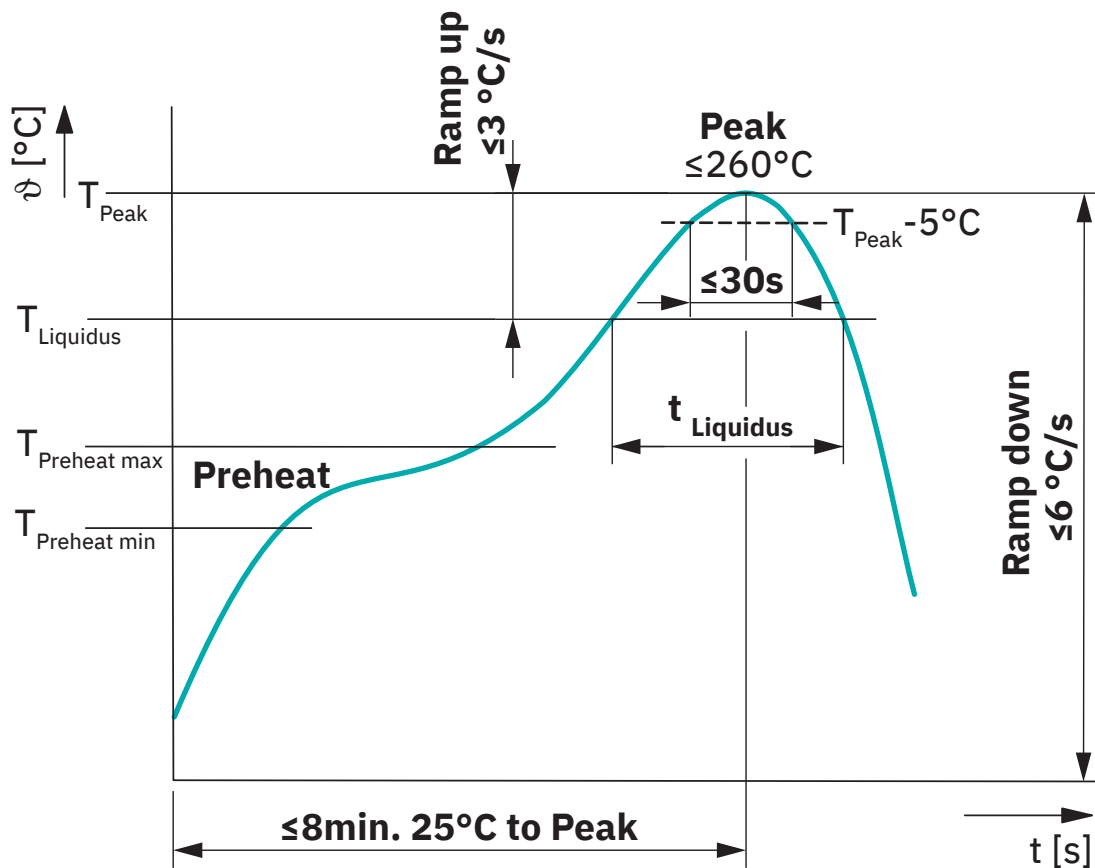
Mounting type	THR soldering
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### Processing notes

Moisture Sensitive Level	MSL 1
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## Drawings

Diagram



Classification reflow soldering profile

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## Approvals

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	<b>cULus Recognized</b> Approval ID: E335024-20220331			
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	60 V	1.4 A	-	-

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## Classifications

### ECLASS

ECLASS-11.0	27440390
ECLASS-13.0	27460201
ECLASS-12.0	27440390

### ETIM

ETIM 9.0	EC002637
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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