

# SPE-T1-STRM-90 - SPE PCB connector



1163797

<https://www.phoenixcontact.com/us/products/1163797>

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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                          | 1163797       |
| Packing unit                         | 100 pc        |
| Minimum order quantity               | 100 pc        |
| Sales key                            | AB13          |
| Product key                          | ABNBDA        |
| GTIN                                 | 4063151175979 |
| Weight per piece (including packing) | 4.14 g        |
| Weight per piece (excluding packing) | 3.96 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                          |
| Number of positions | 2                            |
| Connection profile  | SPE                          |
| Type of packaging   | Tape and Reel                |
| Pitch               | 7.62 mm                      |
| Number of slots     | 1                            |
| Shielded            | yes                          |
| Cable outlet        | straight                     |

### Insulation characteristics

|                      |    |
|----------------------|----|
| Overvoltage category | II |
| 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 speed                      | 1 Gbps (in accordance with IEEE 802.3 bp)<br>100 Mbps (in accordance with IEEE 802.3 bw)<br>10 Mbps (in accordance with IEEE 802.3 cg) |
| Transmission characteristics (category) | CAT B (IEC 63171)  |
| Transmission speed                      | 1 Gbps   |
| Power transmission                      | PoDL   |

### Connection data

#### Connection technology

|                   |                       |
|-------------------|-----------------------|
| Connection method | THR solder connection |
|-------------------|-----------------------|

### Interfaces

|                      |   |
|----------------------|---|
| Signal type/category | Single Pair Ethernet CAT B (ISO/IEC 63171), 1 Gbps (in accordance with IEEE 802.3 bp) |
|----------------------|---|

### Dimensions

|        |         |
|--------|---------|
| Width  | 5 mm    |
| Height | 8.35 mm |
| Length | 14.2 mm |

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### Material specifications

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

### Cable/line

|                          |   |
|--------------------------|---|
| Signal type/category     | Single Pair Ethernet CAT B (ISO/IEC 63171), 1 Gbps (in accordance with IEEE 802.3 bp) |
| 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

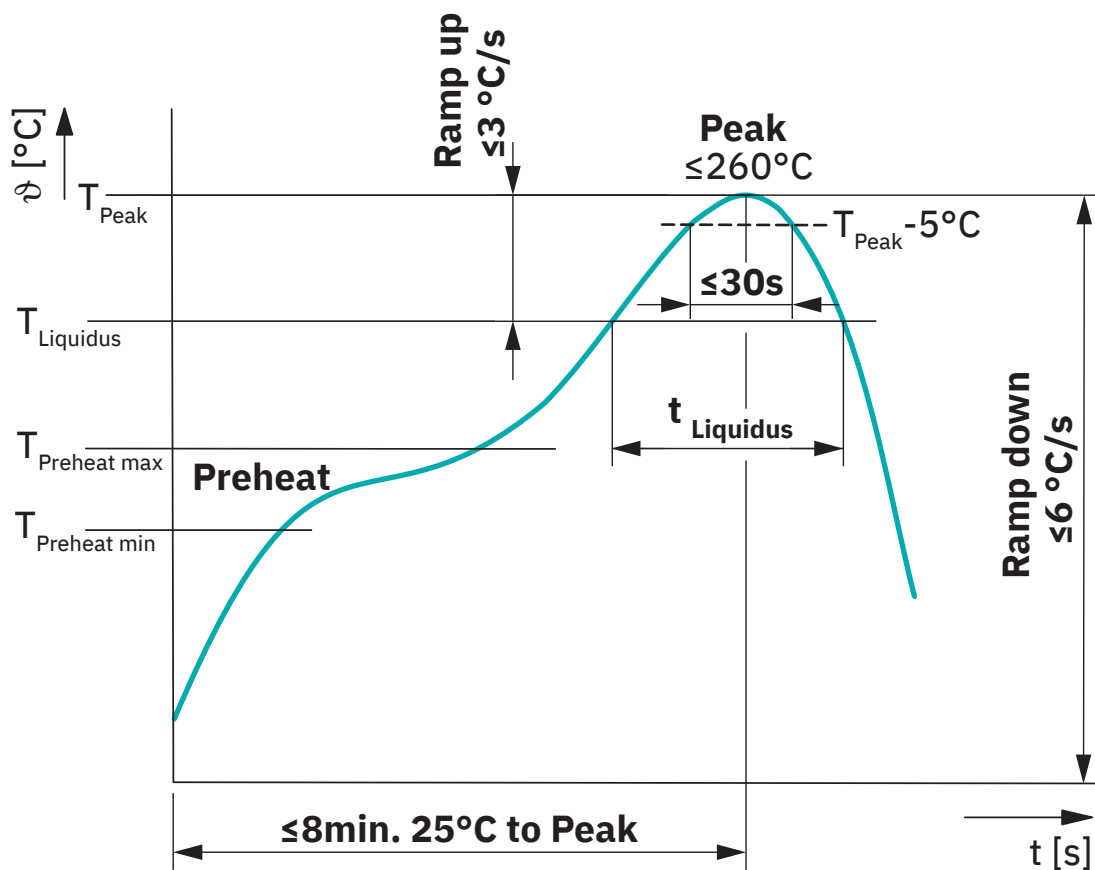
|               |               |
|---------------|---------------|
| Mounting type | THR soldering |
|---------------|---------------|

#### Processing notes

|                          |       |
|--------------------------|-------|
| Moisture Sensitive Level | MSL 1 |
|--------------------------|-------|

Drawings

Diagram



Classification reflow soldering profile

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1163797>

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

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440110 |
| ECLASS-15.0 | 27440110 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC003568 |
|-----------|----------|

### 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% |
|-------------------------------------|----------------------------|

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 0.281 kg CO2e |
|---------|---------------|

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