SPE-T1-STRM-90 - SPE PCB connector

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	
Sensor type	Single Pair Ethernet	
Number of positions	2	
Connection profile	SPE	
Type of packaging	Tape and Reel	
Pitch	7.62 mm	
Number of slots	1	
Type	Socket	
Shielded	yes	
Cable outlet	straight	

Data management status

Article revision	01	

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 characteristics (category)	CAT B (IEC 63171)	
Transmission speed	1 Gbps	
Power transmission	PoDL	

Connection data

Connection technology

Connection method	THR solder connection	

Dimensions

Width	5 mm	
Height	8.35 mm	
Length	14.2 mm	

Material specifications

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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

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
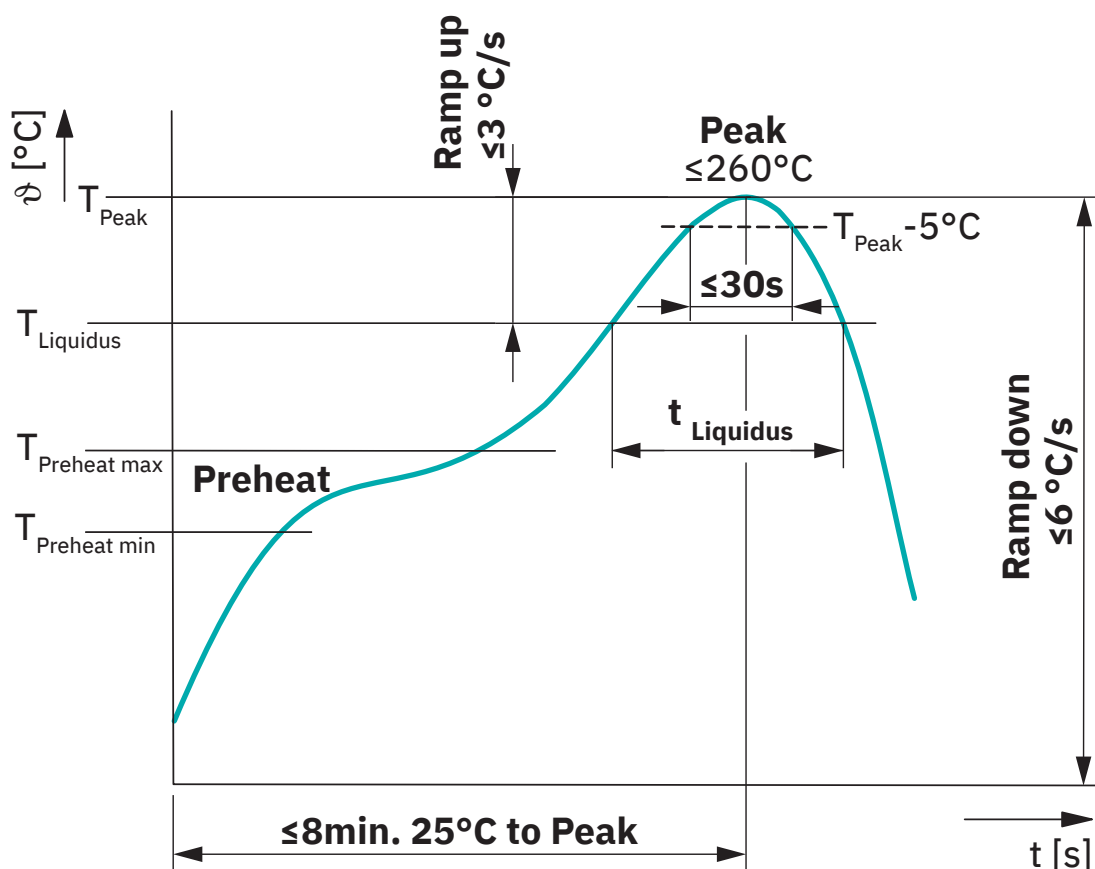
Classification reflow soldering profile

Approvals

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

	cULus Recognized Approval ID: E335024-20220331			
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section 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

UNSPSC

UNSPSC 21.0	39121400

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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