SPE-T1-M12MSM-180 - SPE PCB connector

1363336

https://www.phoenixcontact.com/in/products/1363336

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SPE PCB connector, design: SPE, degree of protection: IP65/IP67, number of positions: 2, material: LCP, connection method: THR solder connection, cable outlet: straight, color: black, Single Pair Ethernet

Your advantages

- Connectors in accordance with IEC 63171-5
- THR solderable
- Data transmission up to 600 MHz

Commercial data

Item number	1363336
Packing unit	80 pc
Minimum order quantity	80 pc
Sales key	*****
Product key	ABNBEA
GTIN	4063151708221
Weight per piece (including packing)	7.3 g
Weight per piece (excluding packing)	2.553 g
Customs tariff number	85366990
Country of origin	CN

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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
Type of packaging	Tape and Reel
[W] tape width	44.00 mm
[A] coil diameter	330.00 mm
[W2] coil overall dimension	50.40 mm
Number of slots	1
Cable outlet	straight
Thread type	M12

Insulation characteristics

Overvoltage category	II
Degree of pollution	2

Electrical properties

Maximum load current	4 A
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	min. 1 TΩ
Contact resistance	20 mΩ
Transmission medium	Copper
Transmission characteristics (category)	CAT B (IEC 63171)
Transmission speed	1 Gbps
Power transmission	PoDL

Output data

Transmission frequency	600.00 MHz

Connection data

Connection technology

Connection method	THR solder connection

Interfaces

Transmission speed	1 Gbps1 Gbps

Dimensions

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Width	12.4 mm
Height	23.8 mm
Length	13.7 mm
Installed height	21.60 mm
Orientation to PCB	180.00 °

Material specifications

Color	black
Color of the housing part	black
Material	Au
	Ni
	Au
	Ni
Flammability rating according to UL 94	V0
Housing material	LCP
Housing surface material	LCP
Contact material	Cu alloy
Contact surface material	Au/Ni

Cable/line

Test voltage Core/Core	1000 V DC
Test voltage Core/Shield	2250.00 V DC
Test voltage, cable	300 V

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)
Smallest bending radius	21,2 mm

Environmental and real-life conditions

Test specification

Type of test	Vibration test
Specification	IEC 60068-2-6
Frequency	10-500 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm
Acceleration	50.00 m/s²
Test duration	2.00 h

Test specification

Specification	IEC 63171
Corrosive stress	IEC 60512-11-7

Contact resistance R_1	20.00 mΩ

Test specification

Type of test	Mechanical service life with corrosion test
Specification	DIN EN 60512-9-1

Test specification

Type of test	Shock testing
Specification	IEC 60068-2-27
Acceleration	150.00 m/s²
Number of shocks per direction	2000.00

Ambient conditions

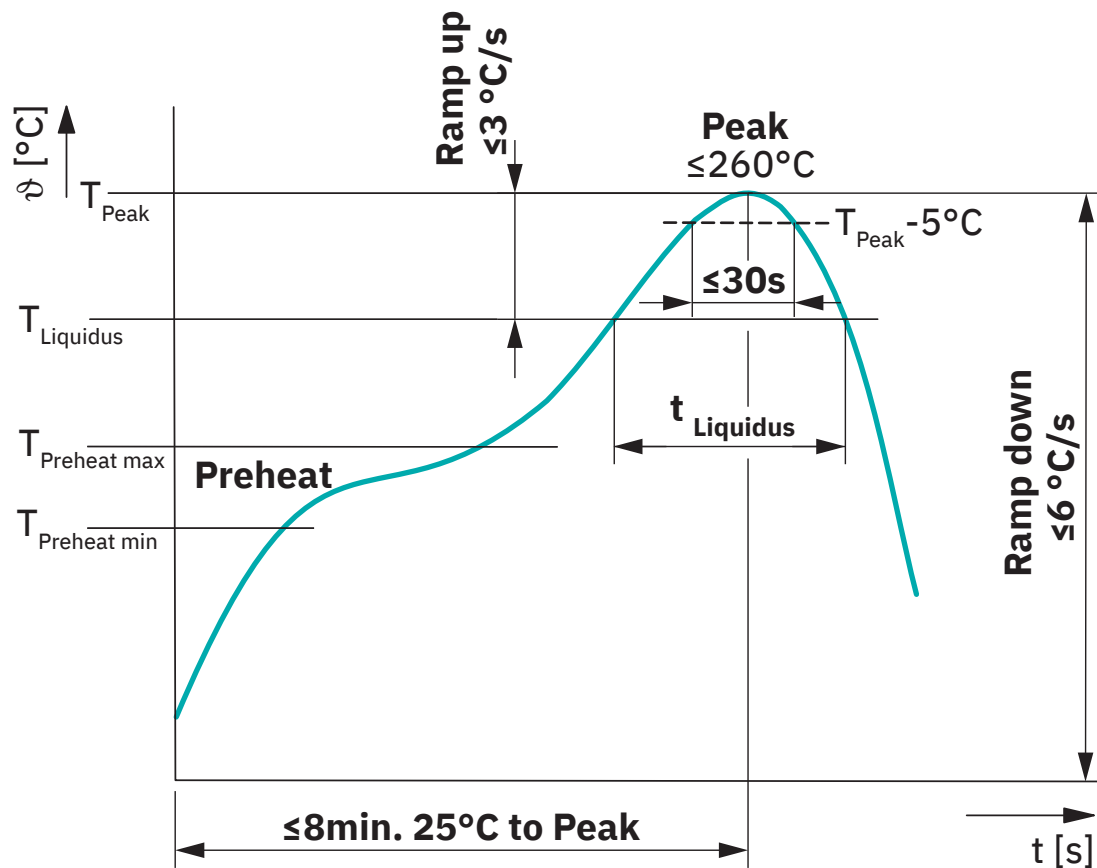| Degree of protection	IP65/IP67
Ambient temperature (operation)	-40 °C ... 85 °C (Harsh environment)
Ambient temperature (storage/transport)	-40 °C ... 85 °C (DIN EN 60512-6-3)
Resistance to UV radiation	yes

Mounting

Mounting type	PCB mounting

Processing notes

Process	Reflow
Moisture Sensitive Level	MSL 1
Classification temperature T_c	260 °C
Solder cycles in the reflow	3

Drawings

Diagram

Classification reflow soldering profile

Classifications

ECLASS

ECLASS-11.0	27440190
ECLASS-12.0	27440190
ECLASS-13.0	27460201

ETIM

ETIM 9.0	EC002637

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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Accessories

SACC-BP-M-M12-THR PP - Housing screw connection

1027661

https://www.phoenixcontact.com/in/products/1027661

Housing screw connection, Pin, M12-Push-pull external locking, Rear mounting, M15 x 1, THR- und Wellenlötkontakte, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

SACC-FP-M-M12-THR PP - Housing screw connection

1027679

https://www.phoenixcontact.com/in/products/1027679

Housing screw connection, Pin, M12-Push-pull external locking, Front mounting, THR- und Wellenlötkontakte, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

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SPE-T1-M12MS/ 5,0-99B/M12FS - Network cable

1478373

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Network cable, Single Pair Ethernet CAT B (1 Gbps), 2-position, PUR halogen-free, green, shielded (Advanced Shielding Technology), Plug straight M12-SPE / IP67, on Socket straight M12-SPE / IP67, cable length: 5 m

SPE-T1-M12MS/ 2,0-97B/M12FS - Network cable

1364626

https://www.phoenixcontact.com/in/products/1364626

Network cable, Single Pair Ethernet CAT A (10 Mbps), 2-position, PVC, black, shielded (Advanced Shielding Technology), Plug straight M12-SPE / IP67, on Socket straight M12-SPE / IP67, cable length: 2 m

SPE-T1-M12MSM-180 - SPE PCB connector

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SPE-T1-M12FS/ 2,0-97B/M12FS - Network cable

1364631

https://www.phoenixcontact.com/in/products/1364631

Network cable, Single Pair Ethernet CAT A (10 Mbps), 2-position, PVC, black, shielded (Advanced Shielding Technology), Socket straight M12-SPE / IP67, on Socket straight M12-SPE / IP67, cable length: 2 m

SPE-T1-M12FS/ 2,0-99B/M12FS - Network cable

1364623

https://www.phoenixcontact.com/in/products/1364623

Network cable, Single Pair Ethernet CAT B (1 Gbps), 2-position, PUR halogen-free, green, shielded (Advanced Shielding Technology), Socket straight M12-SPE / IP67, on Socket straight M12-SPE / IP67, cable length: 2 m

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SPE-T1-M12MS/ 2,0-99B/M12FS - Network cable

1364621

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Network cable, Single Pair Ethernet CAT B (1 Gbps), 2-position, PUR halogen-free, green, shielded (Advanced Shielding Technology), Plug straight M12-SPE / IP67, on Socket straight M12-SPE / IP67, cable length: 2 m

SPE-T1-M12MS/10,0-99B/M12FS - Network cable

1478375

https://www.phoenixcontact.com/in/products/1478375

Network cable, Single Pair Ethernet CAT B (1 Gbps), 2-position, PUR halogen-free, green, shielded (Advanced Shielding Technology), Plug straight M12-SPE / IP67, on Socket straight M12-SPE / IP67, cable length: 10 m

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SPE-T1-M12MS/ 1,0-99B/M12FS - Network cable

1478372

https://www.phoenixcontact.com/in/products/1478372

Network cable, Single Pair Ethernet CAT B (1 Gbps), 2-position, PUR halogen-free, green, shielded (Advanced Shielding Technology), Plug straight M12-SPE / IP67, on Socket straight M12-SPE / IP67, cable length: 1 m

SPE-T1- 1,0-99B/M12FS - Network cable

1478368

https://www.phoenixcontact.com/in/products/1478368

Network cable, Single Pair Ethernet CAT B (1 Gbps), 2-position, PUR halogen-free, green, shielded (Advanced Shielding Technology), free cable end, on Socket straight M12-SPE / IP67, cable length: 1 m

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SPE-T1-10,0-99B/M12FS - Network cable

1478371

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Network cable, Single Pair Ethernet CAT B (1 Gbps), 2-position, PUR halogen-free, green, shielded (Advanced Shielding Technology), free cable end, on Socket straight M12-SPE / IP67, cable length: 10 m

SPE-T1- 2,0-99B/M12FS - Network cable

1478369

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Network cable, Single Pair Ethernet CAT B (1 Gbps), 2-position, PUR halogen-free, green, shielded (Advanced Shielding Technology), free cable end, on Socket straight M12-SPE / IP67, cable length: 2 m

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SPE-T1- 5,0-99B/M12FS - Network cable

1478370

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Network cable, Single Pair Ethernet CAT B (1 Gbps), 2-position, PUR halogen-free, green, shielded (Advanced Shielding Technology), free cable end, on Socket straight M12-SPE / IP67, cable length: 5 m

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