

1215777

https://www.phoenixcontact.com/us/products/1215777

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



SPE PCB connector, design: IEC 63171-5, degree of protection: IP20, number of positions: 2, CAT B (ISO/IEC 63171), material: Plastic, connection method: SMD, 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

Commercial data

Item number	1215777
Packing unit	100 pc
Minimum order quantity	100 pc
Sales key	AB13
Product key	ABNBDB
GTIN	4063151297015
Weight per piece (including packing)	5.2 g
Weight per piece (excluding packing)	5.3 g
Customs tariff number	85366930
Country of origin	DE



1215777

https://www.phoenixcontact.com/us/products/1215777

Technical data

Product properties

Product type	Data connector (device side)	
Туре	SPE	
Sensor type	Single Pair Ethernet	
Number of positions	2	
Connection profile	SPE M8	
Type of packaging	Tape and Reel	
Number of slots	1	
Туре	Socket	
Shielded	yes	
Thread type	M8	
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 surge voltage	1000 V DC
Rated current	4 A
Frequency range	5 Hz 500 Hz
Insulation resistance	> 1 TΩ
Contact resistance	20 mΩ (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

Connection data

Connection technology

Connection method	SMD
-------------------	-----

Dimensions

Width	10.1 mm
Height	22.1 mm
Length	14.5 mm
Installed height	21.50 mm



1215777

https://www.phoenixcontact.com/us/products/1215777

Orientation to	180.00 °
terial specifications	
Flammability rating according to UL 94	V0
Housing material	Plastic
Contact material	Copper alloy
Contact surface material	Gold
Contact carrier material	LCP
ble/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	yes
chanical properties	
Mechanical data	
Insertion/withdrawal cycles	≥ 100
Insertion force per signal contact	< 30.00 N (in accordance with IEC 63171)
	1 30:00 14 (III accordance With 120 00 17 1)
Extraction force per signal contact	< 30 N (in accordance with IEC 63171)
Extraction force per signal contact vironmental and real-life conditions Test specification	< 30 N (in accordance with IEC 63171)
Extraction force per signal contact vironmental and real-life conditions Test specification Specification	< 30 N (in accordance with IEC 63171) IEC 63171
Extraction force per signal contact vironmental and real-life conditions Test specification Specification Cold stress	< 30 N (in accordance with IEC 63171) IEC 63171 -40°C
Extraction force per signal contact vironmental and real-life conditions Test specification Specification Cold stress Thermal stress	< 30 N (in accordance with IEC 63171) IEC 63171 -40°C 85°C
Extraction force per signal contact vironmental and real-life conditions Test specification Specification Cold stress	< 30 N (in accordance with IEC 63171) IEC 63171 -40°C
Extraction force per signal contact vironmental and real-life conditions Test specification Specification Cold stress Thermal stress Corrosive stress	< 30 N (in accordance with IEC 63171) IEC 63171 -40°C 85°C
Extraction force per signal contact vironmental and real-life conditions Test specification Specification Cold stress Thermal stress Corrosive stress	< 30 N (in accordance with IEC 63171) IEC 63171 -40°C 85°C
Extraction force per signal contact vironmental and real-life conditions Test specification Specification Cold stress Thermal stress Corrosive stress Test specification	< 30 N (in accordance with IEC 63171) IEC 63171 -40°C 85°C IEC 60512-11-7
Extraction force per signal contact vironmental and real-life conditions Test specification Specification Cold stress Thermal stress Corrosive stress Test specification Specification Specification	< 30 N (in accordance with IEC 63171) IEC 63171 -40°C 85°C IEC 60512-11-7 IEC 60068-2-6
Extraction force per signal contact vironmental and real-life conditions Fest specification Specification Cold stress Thermal stress Corrosive stress Fest specification Specification Specification Frequency	< 30 N (in accordance with IEC 63171) IEC 63171 -40°C 85°C IEC 60512-11-7 IEC 60068-2-6 5-500 Hz
Extraction force per signal contact vironmental and real-life conditions Test specification Specification Cold stress Thermal stress Corrosive stress Test specification Specification Specification Specification Frequency Sweep speed	< 30 N (in accordance with IEC 63171) IEC 63171 -40°C 85°C IEC 60512-11-7 IEC 60068-2-6 5-500 Hz 1 octave/min
Extraction force per signal contact vironmental and real-life conditions Test specification Specification Cold stress Thermal stress Corrosive stress Test specification Specification Specification Frequency Sweep speed Amplitude	< 30 N (in accordance with IEC 63171) IEC 63171 -40°C 85°C IEC 60512-11-7 IEC 60068-2-6 5-500 Hz 1 octave/min 0.75 mm
Extraction force per signal contact vironmental and real-life conditions Test specification Specification Cold stress Thermal stress Corrosive stress Test specification Specification Specification Frequency Sweep speed Amplitude Acceleration Test duration	< 30 N (in accordance with IEC 63171) IEC 63171 -40°C 85°C IEC 60512-11-7 IEC 60068-2-6 5-500 Hz 1 octave/min 0.75 mm 100.00 m/s²
Extraction force per signal contact vironmental and real-life conditions Fest specification Cold stress Thermal stress Corrosive stress Fest specification Specification Frequency Sweep speed Amplitude Acceleration Test duration	< 30 N (in accordance with IEC 63171) IEC 63171 -40°C 85°C IEC 60512-11-7 IEC 60068-2-6 5-500 Hz 1 octave/min 0.75 mm 100.00 m/s²
Extraction force per signal contact vironmental and real-life conditions Test specification Cold stress Thermal stress Corrosive stress Test specification Specification Specification Frequency Sweep speed Amplitude Acceleration Test duration	< 30 N (in accordance with IEC 63171) IEC 63171 -40°C 85°C IEC 60512-11-7 IEC 60068-2-6 5-500 Hz 1 octave/min 0.75 mm 100.00 m/s² 20.00 s
Extraction force per signal contact vironmental and real-life conditions Fest specification Cold stress Thermal stress Corrosive stress Fest specification Specification Frequency Sweep speed Amplitude Acceleration Test duration Fest specification Specification Specification Specification Test specification Specification	< 30 N (in accordance with IEC 63171) IEC 63171 -40°C 85°C IEC 60512-11-7 IEC 60068-2-6 5-500 Hz 1 octave/min 0.75 mm 100.00 m/s² 20.00 s IEC 60068-2-27
Extraction force per signal contact vironmental and real-life conditions Test specification Cold stress Thermal stress Corrosive stress Test specification Specification Frequency Sweep speed Amplitude Acceleration Test duration Test duration Specification Specification Acceleration Number of shocks per direction	IEC 63171 -40°C 85°C IEC 60512-11-7 IEC 60068-2-6 5-500 Hz 1 octave/min 0.75 mm 100.00 m/s² 20.00 s IEC 60068-2-27 500.00 m/s²
Extraction force per signal contact vironmental and real-life conditions Test specification Specification Cold stress Thermal stress Corrosive stress Test specification Specification Frequency Sweep speed Amplitude Acceleration Test duration Test specification Specification Acceleration Acceleration	IEC 63171 -40°C 85°C IEC 60512-11-7 IEC 60068-2-6 5-500 Hz 1 octave/min 0.75 mm 100.00 m/s² 20.00 s IEC 60068-2-27 500.00 m/s²



1215777

https://www.phoenixcontact.com/us/products/1215777

Ambient temperature (operation)	-40 °C 85 °C		
Ambient temperature (storage/transport)	-40 °C 85 °C		
Resistance to oil	yes		
Standards and regulations			
Flame resistance	yes		
Resistance to oil	yes		
Mounting			
Mounting type	SMD soldering		
Processing notes			
Process	Reflow/wave soldering		
Moisture Sensitive Level	MSL 1		
Solder cycles in the reflow	3		



1215777

https://www.phoenixcontact.com/us/products/1215777

Classifications

ECLASS

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

UNSPSC

UNSPSC 21.0	39121400



1215777

https://www.phoenixcontact.com/us/products/1215777

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%	



1215777

https://www.phoenixcontact.com/us/products/1215777

Accessories

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

1412502

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



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

Phoenix Contact 2024 © - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com