

1363338

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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

- Easily integrated: M12 male and female versions for established inductive sensors and flying leads
- Cross-application: range of up to 1000 m, data rates of up to 1 Gbps, and power of up to 50 W
- Totally protected: Advanced Shielding Technology provides a reliable shield connection for network cables, even under extreme environmental conditions
- Future-proof: standardized connectors and cables in accordance with IEC 63171-5

Commercial data

Item number	1363338
Packing unit	80 pc
Minimum order quantity	80 pc
Sales key	AB13
Product key	ABNBEA
GTIN	4063151708429
Weight per piece (including packing)	9.625 g
Weight per piece (excluding packing)	9.625 g
Customs tariff number	85366930
Country of origin	DE



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Technical data

Product properties

Product type	Data connector (device side)
Туре	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
Data management status	
Article revision	02
Insulation characteristics	
Overvoltage category	II

2

Electrical properties

Degree of pollution

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



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Test duration

Test specification

Specification

Corrosive stress

Contact resistance R₁

Transmission speed	1 Gbps1 Gbps	
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mensions		
Width	15.3 mm	
Height	14.4 mm	
Length	31.6 mm	
Installed height	12.00 mm	
Orientation to	90.00 °	
aterial specifications		
Color	black	
Color of the housing part	black	
Flammability rating according to UL 94	V0	
Housing material	LCP	
Housing surface material	Ni/Sn	
Contact material	Cu alloy	
Contact surface material	Au/Ni	
ble/line		
Test voltage Core/Core	1000 V DC	
Test voltage Core/Shield	2250.00 V DC	
Test voltage, cable	300 V	
echanical properties		
Mechanical data		
Mechanical data Insertion/withdrawal cycles	> 100	
Mechanical data Insertion/withdrawal cycles Insertion force per signal contact	< 30.00 N (in accordance with IEC 63171)	
Mechanical data Insertion/withdrawal cycles Insertion force per signal contact Extraction force per signal contact	< 30.00 N (in accordance with IEC 63171) < 30 N (in accordance with IEC 63171)	
Mechanical data Insertion/withdrawal cycles Insertion force per signal contact	< 30.00 N (in accordance with IEC 63171)	
Mechanical data Insertion/withdrawal cycles Insertion force per signal contact Extraction force per signal contact Smallest bending radius	< 30.00 N (in accordance with IEC 63171) < 30 N (in accordance with IEC 63171)	
Mechanical data Insertion/withdrawal cycles Insertion force per signal contact Extraction force per signal contact	< 30.00 N (in accordance with IEC 63171) < 30 N (in accordance with IEC 63171)	
Mechanical data Insertion/withdrawal cycles Insertion force per signal contact Extraction force per signal contact Smallest bending radius	< 30.00 N (in accordance with IEC 63171) < 30 N (in accordance with IEC 63171)	
Insertion/withdrawal cycles Insertion force per signal contact Extraction force per signal contact Smallest bending radius vironmental and real-life conditions	< 30.00 N (in accordance with IEC 63171) < 30 N (in accordance with IEC 63171)	
Mechanical data Insertion/withdrawal cycles Insertion force per signal contact Extraction force per signal contact Smallest bending radius vironmental and real-life conditions Test specification	< 30.00 N (in accordance with IEC 63171) < 30 N (in accordance with IEC 63171) 21,2 mm	
Mechanical data Insertion/withdrawal cycles Insertion force per signal contact Extraction force per signal contact Smallest bending radius vironmental and real-life conditions Test specification Type of test	< 30.00 N (in accordance with IEC 63171) < 30 N (in accordance with IEC 63171) 21,2 mm Vibration test	
Mechanical data Insertion/withdrawal cycles Insertion force per signal contact Extraction force per signal contact Smallest bending radius vironmental and real-life conditions Test specification Type of test Specification	< 30.00 N (in accordance with IEC 63171) < 30 N (in accordance with IEC 63171) 21,2 mm Vibration test IEC 60068-2-6	
Mechanical data Insertion/withdrawal cycles Insertion force per signal contact Extraction force per signal contact Smallest bending radius vironmental and real-life conditions Test specification Type of test Specification Frequency	< 30.00 N (in accordance with IEC 63171) < 30 N (in accordance with IEC 63171) 21,2 mm Vibration test IEC 60068-2-6 10-500 Hz	

2.00 h

IEC 63171

 $20.00\; m\Omega$

IEC 60512-11-7



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Test specifical	tion

rest 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



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Classifications

ECLASS

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

ETIM

ETIM 9.0	EC002943	



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Accessories

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

1107993

https://www.phoenixcontact.com/us/products/1107993



Housing screw connection, Pin, M12-Push-pull external locking, Rear mounting, SMD, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1308006

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

1107999

https://www.phoenixcontact.com/us/products/1107999



Housing screw connection, Pin, M12-Push-pull external locking, Front mounting, SMD



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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 halogenfree, 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/us/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



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

1364631

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



Network cable, Single Pair Ethernet CAT B (1 Gbps), 2-position, PUR halogenfree, 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 halogenfree, 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/us/products/1478375



Network cable, Single Pair Ethernet CAT B (1 Gbps), 2-position, PUR halogenfree, 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

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Network cable, Single Pair Ethernet CAT B (1 Gbps), 2-position, PUR halogenfree, 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

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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: 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 halogenfree, 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 halogenfree, 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

https://www.phoenixcontact.com/us/products/1478370



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

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