1363344

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SPE PCB connector, design: SPE, degree of protection: IP65/IP67, number of positions: 2, material: LCP, connection method: SMD, 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	1363344
Packing unit	80 pc
Minimum order quantity	80 pc
Sales key	AB13
Product key	ABNBEB
GTIN	4063151708115
Weight per piece (including packing)	6.684 g
Weight per piece (excluding packing)	6.684 g
Customs tariff number	85366930
Country of origin	DE

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Technical data

Product properties

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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	38.40 mm
Number of slots	1
Cable outlet	straight
Thread type	M12
Data managament status	
Data management status Article revision	02
Article revision	02
Insulation characteristics	
Overvoltage category	Ш
Degree of pollution	2
ectrical 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 ΤΩ
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
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Connection data

Connection technology	
Connection method	SMD





1363344

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	Transmission speed	1 Gbps1 Gbps
Di	mensions	
	Width	12.1 mm
	Height	16.2 mm
	Length	15.3 mm
	Installed height	21.60 mm
	Orientation to	180.00 °

Material specifications

Color	black
Color of the housing part	black
Flammability rating according to UL 94	VO
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/s ²
Test duration	2.00 h
Test specification	
Specification	IEC 63171
Corrosive stress	IEC 60512-11-7
Contact resistance R ₁	20.00 mΩ



1363344

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pe of test	Mechanical service life with corrosion test
Specification	DIN EN 60512-9-1
st specification	
Type of test	Shock testing
Specification	IEC 60068-2-27
Acceleration	150.00 m/s²
Number of shocks per direction	2000.00
nbient 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
nting	
Mounting type	PCB mounting
ocessing notes	5.4
Process	Reflow
Moisture Sensitive Level	MSL 1
Classification temperature T _c	260 °C



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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-F-M12/M15-6-SMD - Housing screw connection

1414021 https://www.phoenixcontact.com/us/products/1414021



Housing screw connection, Socket, M12, Rear mounting, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239058

SACC-FP-F-M12/M14 SMD - Housing screw connection

1412079

https://www.phoenixcontact.com/us/products/1412079



M12 female connector, front mounting SMD with M14 screw fastening

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

1478377

https://www.phoenixcontact.com/us/products/1478377



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

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

1364629

https://www.phoenixcontact.com/us/products/1364629



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

1363344

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

1364622

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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 Plug straight M12-SPE / IP67, cable length: 2 m

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

1478365 https://www.phoenixcontact.com/us/products/1478365



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

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

1478380

https://www.phoenixcontact.com/us/products/1478380



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

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

1478367 https://www.phoenixcontact.com/us/products/1478367



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

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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/ 5,0-99B - Network cable

1478366 https://www.phoenixcontact.com/us/products/1478366



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

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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

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

1478364 https://www.phoenixcontact.com/us/products/1478364



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

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

1478376

https://www.phoenixcontact.com/us/products/1478376



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

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

1364621 https://www.phoenixcontact.com/us/products/1364621



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

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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

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

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



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

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