

SPE-T1-M8MSM-180 - SPE PCB connector



1163793

<https://www.phoenixcontact.com/us/products/1163793>

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SPE PCB connector, design: IEC 63171-5, degree of protection: IP20, number of positions: 2, 10 Gbps, CAT B (ISO/IEC 63171), material: Plastic, connection method: THR solder connection, 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	1163793
Packing unit	1 pc
Minimum order quantity	100 pc
Sales Key	AB14
Product Key	ABNBDA
GTIN	4063151176617
Weight per Piece (including packing)	5.813 g
Weight per Piece (excluding packing)	22.22 g
Customs tariff number	85366990
Country of origin	DE

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Technical Data

Product properties

Type	SPE
Product type	Female insert
Number of positions	2
Connection profile	SPE M8
Number of slots	1
Type	Socket
Locking type	Screw locking
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

Output data

Transmission frequency	600.00 MHz
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Dimensions

Width	10.1 mm
Height	24 mm
Installed height	21.50 mm
Length	14.5 mm

Material specifications

Flammability rating according to UL 94	V0
Contact material	Copper alloy
Contact surface material	Gold
Contact carrier material	LCP
Housing material	Plastic

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Cable/line

Test voltage Core/Core	1000 V DC
Test voltage Core/Shield	2250 V DC
Halogen-free	yes
Resistance to oil	yes
Flame resistance	yes

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)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65/IP67 (in combination with M8 housing screw connection) 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	yes
Resistance to oil	yes

Mounting

Mounting type	THR soldering
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Processing notes

Process	Reflow/wave soldering
Moisture Sensitive Level	MSL1
Solder cycles in the reflow	3

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Classifications

ECLASS

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

ETIM

ETIM 8.0	EC001121
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UNSPSC

UNSPSC 21.0	39121400
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Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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Accessories

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

1412502

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



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

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