

# SPE-T1-CCP-SF/5,0/AWG22/CCP-SF - Patch cable

1183811

<https://www.phoenixcontact.com/us/products/1183811>



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Patch cable, design: IEC 63171-2, degree of protection: IP20, cable length: 5 m, number of positions: 2, 1 Gbps, CAT B, material: TPU, connection method: Crimp connection, connection cross section: AWG 22- 22, cable outlet: straight, Single Pair Ethernet

## Your advantages

- Compact design
- Connectors in accordance with IEC 63171-2
- Mechanical interlock with locking clip
- Robust industrial design
- 360° shielding
- Data transmission up to 600 MHz

## Commercial data

Item number	1183811
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB13
Product key	ABNBCB
GTIN	4063151221898
Weight per piece (including packing)	195 g
Weight per piece (excluding packing)	195 g
Customs tariff number	85444290
Country of origin	DE

## Technical data

### Product properties

Product type	Data cable preassembled
Type	SPE
Sensor type	Single Pair Ethernet
Number of positions	2
Connection profile	SPE
No. of cable outlets	1
Number of slots	2
Shielded	yes
Cable outlet	straight

### Insulation characteristics

Overvoltage category	I
Degree of pollution	2

### Electrical properties

Rated voltage (III/2)	72 V DC
Rated current	4 A
Frequency range	600 MHz
Insulation resistance	> 1 TΩ
Contact resistance	< 20 mΩ
Transmission speed	1 Gbps (in accordance with IEEE 802.3 bp) 100 Mbps (in accordance with IEEE 802.3 bw) 10 Mbps (in accordance with IEEE 802.3 cg)
Transmission characteristics (category)	CAT B
Transmission speed	1 Gbps
Power transmission	PoDL
Wave impedance	100 Ω
Max. conductor resistance	59.4 MΩ/km

### Mechanical properties

#### Mechanical data

Insertion/withdrawal cycles	≥ 1000
Insertion force per signal contact	< 10.00 N
Extraction force per signal contact	< 10 N
Smallest bending radius	21,2 mm

### Material specifications

Flammability rating according to UL 94	V0
Housing material	TPU
Contact material	Cu alloy

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Contact surface material	Ni/Au
Contact carrier material	LCP
Outer sheath, material	PVC
Conductor material	Cu

## Dimensions

Width	7.53 mm
Height	14 mm
Length	36 mm

## Connection data

Connection technology	
Connection method	Crimp connection
Conductor connection	
Connection method	Crimp connection

## Connector

Connection 1	
Type	Plug straight SPE
Shielded	yes
Insertion/withdrawal cycles	≥ 1000
Degree of protection	IP20

Connection 2	
Type	Plug straight SPE
Shielded	yes
Insertion/withdrawal cycles	≤ 1000
Degree of protection	IP20

## Cable/line

Cable length	5.00 m
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Single Pair Ethernet PUR flexible, black [97B]

Dimensional drawing	
Shielded	yes
UL AWM Style	2095 (80°C/300 V)
Cable type	Single Pair Ethernet PUR flexible, black

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Cable type (abbreviation)	97B
Signal type/category	Single Pair Ethernet
Cable structure	1 x 2 x AWG 22/7, S/FTP
External cable diameter	5.10 mm ±0.2 mm
Outer sheath, material	PVC
External sheath, color	black
Thickness, outer sheath	0.55 mm
Conductor material	Tin-plated Cu litz wires
Conductor structure signal line	7x
AWG signal line	22
Conductor cross section	2x 0.34 mm <sup>2</sup>
Material wire insulation	Foamed PE
Wire diameter incl. insulation	1.65 mm
Single wire, color	white, blue
Twisted pairs	2 cores to the pair
Overall twist	1 pair with fillers twisted horizontally
Shielding	Aluminum-coated foil, tinned copper braided shield
Optical shield covering	80 %
Nominal voltage, cable	300 V
Cable resistance	≤ 59.4 Ω/km
Cable insulation resistance	≥ 5 GΩ*km
Wave impedance	100 Ω ±15 Ω (at 20 MHz)
Minimum bending radius, fixed installation	4 x D
Flame resistance	According to FT-2
Ambient temperature (operation)	-20 °C ... 80 °C (cable, fixed installation)

## Environmental and real-life conditions

### Test specification

Specification	IEC 60068-2-6
Frequency	5-500 Hz
Sweep speed	1 octave/min
Amplitude	0.75 mm
Acceleration	100.00 m/s <sup>2</sup>
Test duration	20.00 s

### Test specification

Specification	IEC 60068-2-27
Acceleration	500.00 m/s <sup>2</sup>
Number of shocks per direction	18.00

### Test specification

Specification	IEC 60999-1
Test duration	15.00 min

## Ambient conditions

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Degree of protection	IP20
	IP20
Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Ambient temperature (assembly)	-40 °C ... 85 °C
Resistance to oil	yes

## Standards and regulations

Flame resistance	UL 94 V0
Resistance to oil	yes
Other resistance	UV resistant

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## Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1183811>

<b>UL Recognized</b> Approval ID: File E335024				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine	-	1.4 A	-	-

## Classifications

### ECLASS

ECLASS-13.0	27060307
ECLASS-15.0	27060307

### ETIM

ETIM 9.0	EC001855
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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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