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

1183811

https://www.phoenixcontact.com/pc/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
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

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

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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

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
Cable type (abbreviation)	97B
Signal type/category	Single Pair Ethernet
Cable structure	1 x 2 x AWG 22/7, S/FTP

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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 mm²
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/s²
Test duration	20.00 s

Test specification

Specification	IEC 60068-2-27
Acceleration	500.00 m/s²
Number of shocks per direction	18.00

Test specification

Specification	IEC 60999-1
Test duration	15.00 min

Ambient conditions

Degree of protection	IP20
	IP20
Ambient temperature (operation)	-40 °C ... 85 °C

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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

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UL Recognized
Approval ID: File E335024

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	-	1.4 A	-	-

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Classifications

ECLASS

ECLASS-11.0	27440392
ECLASS-12.0	27440392
ECLASS-13.0	27060307

ETIM

ETIM 9.0	EC001855

UNSPSC

UNSPSC 21.0	39121400

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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%

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