

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

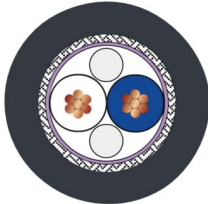
Connection 1	
Type	Plug straight SPE
Shielded	yes
Insertion/withdrawal cycles	≥ 1000
Degree of protection	IP20

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 ²
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 ²
Test duration	20.00 s

Test specification

Specification	IEC 60068-2-27
Acceleration	500.00 m/s ²
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>

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

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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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