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

1183811

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CRIMP



Patch cable, Single Pair Ethernet CAT B (1 Gbps), 2-position, Plug straight SPE / IP20, on Plug straight SPE / IP20, cable length: 5 m

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

ELEKTROGERÄTE RÜCKNAHME

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
Number of positions	2
No. of cable outlets	1
Shielded	yes

Insulation characteristics

Overvoltage category	I
Degree of pollution	2

Interfaces

Signal type/category	Single Pair Ethernet CAT B, 1 Gbps (in accordance with IEEE 802.3 bp)

Electrical properties

Rated voltage (III/2)	72 V DC
Rated current	4 A
Frequency range	600 MHz
Insulation resistance	> 1 TΩ
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
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

Material specifications

Material Housing	Plastic
Material Insulating body	LCP
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

Conductor material	Cu

Dimensions

Width	8 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 / IP20
Number of positions	2
Shielded	yes
Insertion/withdrawal cycles	≥ 1000
Degree of protection	IP20

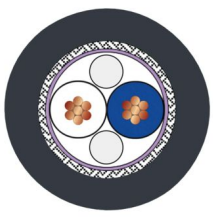
Connection 2

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

Cable/line

Cable length	5 m

Single Pair Ethernet PUR flexible, black [97B]

Dimensional drawing	
UL AWM Style	2095 (80°C/300 V)
Number of positions	2
Shielded	yes
Cable type	Single Pair Ethernet PUR flexible, black [97B]

Conductor structure	1 x 2 x AWG 22/7, S/FTP
Conductor structure signal line	7x
AWG signal line	22
Conductor cross-section	2x 0.34 mm²
Wire diameter incl. insulation	1.65 mm
External cable diameter	5.10 mm ±0.2 mm
Outer sheath, material	PVC
External sheath, color	black
Conductor material	Tin-plated Cu litz wires
Material wire insulation	Foamed PE
Single wire, color	white, blue
Thickness, outer sheath	0.55 mm
Twisted pairs	2 cores to the pair
Overall twist	1 pair with fillers twisted horizontally
Optical shield covering	80 %
Max. conductor resistance	≤ 59.4 Ω/km
Insulation resistance	≥ 5 GΩ*km
Wave impedance	100 Ω ±15 Ω (at 20 MHz)
Nominal voltage, cable	300 V
Minimum bending radius, fixed installation	4 x D
Smallest bending radius, fixed installation	21 mm
Flame resistance	According to FT-2
Ambient temperature (operation)	-20 °C ... 80 °C (cable, fixed installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	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

Test specification

Specification	IEC 60068-2-6
Frequency	5-500 Hz
Sweep speed	1 octave/min
Amplitude	0.75 mm
Acceleration	100 m/s²
Test duration	20 s

Test specification

Specification	IEC 60068-2-27
Acceleration	500 m/s²
Number of shocks per direction	18

Test specification

Specification	IEC 60999-1
Test duration	15 min

Standards and regulations

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

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
keine				
	-	1.4 A	-	-

Classifications

ECLASS

ECLASS-13.0	27060307
ECLASS-15.0	27060307

ETIM

ETIM 9.0	EC001855

UNSPSC

UNSPSC 21.0	39121400

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%

EF3.1 Climate Change

CO2e kg	22.209 kg CO2e

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