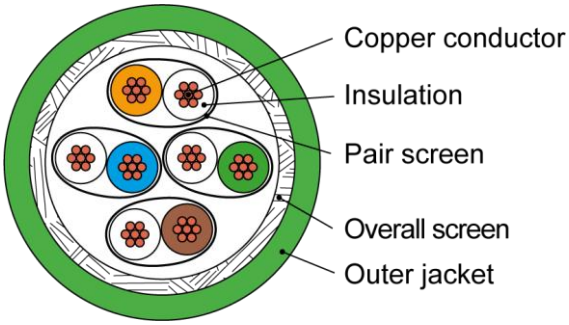
Patch Cable
S/FTP AWG27/7 Cat.7 PUR

Telegärtner



Application

IEC 11801-1:	Class F
EN 50173-1:	Class F
IEEE 802.3:	10BASE-T; 100BASE-T; 1000BASE-T; 10GBASE-T
IEEE 802.3:	Power over Ethernet PoE; PoE+; 4PPoE

Applicable Standards

Design specification:	EN 50288-4-2, IEC 61156-6

Fire behaviour

Euroclass:	-
Smoke production:	-
Acidity:	-
Flaming droplets:	-
Flame retardant:	IEC 60332-1-2 CMX
Halogen free:	IEC 60754-2
Smoke density:	-

Construction

Construction:	S/FTP
Conductor:	stranded bare copper wire Ø 0.46 mm (AWG27/7)
Insulation:	Foam skin Polyethylene, Ø 1.02 mm
Twisting:	2 cores to the pair
Pair screen:	Aluminium-laminated plastic foil, conducting side outward
Cable lay up:	4 pairs (PiMF)
Overall screen:	Copper braid, tinned; coverage ≥ 60 %
Outer jacket:	PUR
Cable marking white:	Cat.7 S/FTP 4x2xAWG27/7 PUR PIMF E344985 AA c(UL)us CMX IEC 60332-1 “production batch no.” “sequential length in meters” CE

Mechanical properties

Outer diameter:	6.2 ± 0.3 mm	
Bending radius:	during operation:	≥ 25 mm
	during installation:	≥ 50 mm
Tensile force:	max. 60 N	
Weight:	40 kg/km	

Environment and Security

Temperature range:	during operation:	-40 °C to +85 °C
	during installation:	0 °C to +50 °C
Fire load:	543 MJ/km	
Oil resistance:	Oil-resistant acc. to UL 758 60 °C	
UV resistance:	UV-resistant acc. to IEC 60068-2-5 (2 cycles of procedure B)	

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Electrical properties (typical at 20 °C)

Characteristic impedance Z (1-100 MHz):	100 ± 15 Ω	
Nominal velocity of propagation NVP:	ca. 78 %	
Propagation delay:	≤ 427 ns/100m	
Delay skew:	≤ 25 ns/100m	
Loop resistance:	33.56 Ω/100m max. 37 Ω/100m	
Resistance unbalance:	pair: between the pairs:	≤ 2 % ≤ 4 %
Insulation resistance (500 V):	≥ 15 MΩx100m	
Mutual capacitance (at 1000 Hz):	4.6 nF/100m	
Capacitance unbalance (pair/ground):	≤ 160 pF/100m	
Test voltage (DC, 60 sec.) (core/core und core/screen):	750 V	
Transfer impedance (mΩ/m):	Grade 2	
Coupling attenuation:	Type 2	
Segregation classification:	c	

Transmission properties (at 20 °C)

Has been verified as being compliant with the standards.

TG part number old / new	Standard designation	Scope of delivery	Copper content kg/km
L02002C0072 / 100013208 green RAL 6018	Li-02YSC11Y 4x2x0.46 PiMF PUR	305 m (1000 ft) easy reel box	-

The editions of the afore mentioned standards by the time of 10.08.2022 are valid.

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