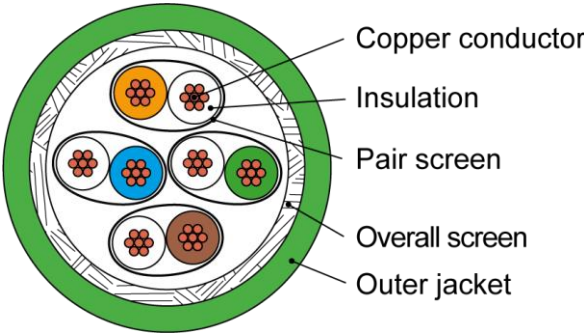


Patch Cable
S/FTP AWG27/7 Cat.7 PVC



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
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Fire behaviour

Euroclass:	-
Smoke production:	-
Acidity:	-
Flaming droplets:	-
Flame retardant:	IEC 60332-1 CM, UL 1581 FT2 (horizontal flame test)
Halogen free:	-
Smoke density:	-

Construction

Construction:	S/FTP
Conductor:	stranded bare copper wire Ø 0.46 mm (AWG27/7)
Insulation:	Foam skin Polyethylene, Ø 0.98 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:	PVC, green RAL 6018
Cable marking blue:	Cat.7 S/FTP 4x2xAWG27/7 PVC E344985 AA c(UL)us CM IEC 60332-1 “production batch no.” “sequential length in meters”

Mechanical properties

Outer diameter:	6.2 ± 0.2 mm
Bending radius:	during operation: ≥ 25 mm during installation: ≥ 50 mm
Tensile force:	max. 60 N
Weight:	42.2 kg/km

Environment and Security

Temperature range:	during operation: -20 °C to +75 °C during installation: 0 °C to +50 °C
Fire load:	431 MJ/km

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Electrical properties (typical at 20 °C)

Characteristic impedance $\underline{Z}$ (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:	≤ 2 %
	between the pairs:	≤ 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
L02002C0071 / 100013207 green RAL 6018	Li-02YSCY 4x2x0.46 PiMF PVC	305 m (1000 ft) easy reel box	-

The editions of the afore mentioned standards by the time of 06.10.2022 are valid.