

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 CMX
Halogen free:	IEC 60754-2
Smoke density:	-

Construction

Construction:	S/FTP
Conductor:	stranded bare copper wire Ø 0.48 mm (AWG26/7)
Insulation:	Foam skin Polyethylene, Ø 1.04 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 blue:	Cat.7 S/FTP 4x2xAWG26/7 PUR PIMF E344985 AA c(UL)us CMX 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:	41 kg/km	

Environment and Security

Temperature range:	during operation:	-40 °C to +85 °C
	during installation:	0 °C to +50 °C
Fire load:	483 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)	

Patch Cable

S/FTP AWG26/7 Cat.7 PUR



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:	26.22 Ω/100m max. 29 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
L02002C0074 / 100013210 green RAL 6024	Li-02YSC11Y 4x2x0.48 PiMF PUR	305 m (1000 ft) easy reel box	-
L02002A0212B / 100033099 green RAL 6024	Li-02YSC11Y 4x2x0.48 PiMF PUR	1000 m disposable wooden drum	-
L02002B0145 / 100122591 blue RAL 5015	Li-02YSC11Y 4x2x0.48 PiMF PUR	-	-

Drum dimensions for	L02002A0212B / 100033099
Drum type:	wooden
Flange diameter d1:	400 mm
Core diameter d2:	150 mm
Central hole:	55 mm
Overall width:	430 mm
Winding width:	410 mm
Drum/EPAL:	18

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