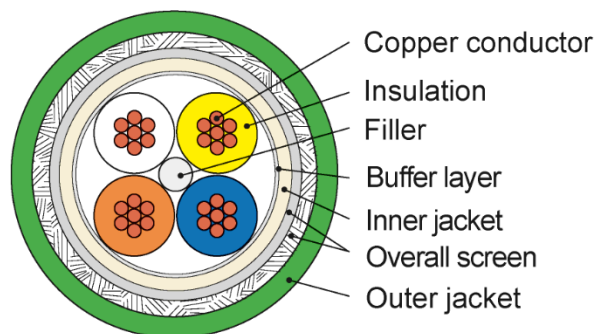




Application

IEC 11801-1:	Class D
EN 50173-1:	Class D
IEEE 802.3:	10Base-T; 100Base-T; PROFINET
IEEE 802.3:	Power over Ethernet PoE; PoE+

Applicable Standards

Design specification:	IEC 61918; IEC 61784-5; IEC 61156-3
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Fire behaviour

Euroclass:	-
Smoke production:	-
Acidity:	-
Flaming droplets:	-
Flame retardant:	IEC 60332-1 ; UL1581 VW-1 section 1080 (vertical flame test)
Halogen free:	IEC 60754-1
Smoke density:	-

Construction

Construction:	SF/UTP
Conductor:	stranded bare copper wire Ø 0.76 mm (AWG22/7)
Insulation:	Polyethylene, Ø 1.51 mm
Cable lay up:	4 cores twisted to quad, with central filler
Buffer layer:	Mylar tape
Inner jacket:	LSZH
Overall screen:	Aluminium-laminated plastic, conducting side outward and copper braid, tinned with min. 90% coverage
Outer jacket:	PUR, green RAL 6018
Cable marking yellow:	PROFINET Typ C SF/UTP 2x2xAWG 22/7 Cat. 5 Trailing cable PUR E344985 AAc(UL)us CMX „sequential length in meters“  

Mechanical properties

Outer diameter:	6.4 ± 0.3 mm
Bending radius:	during operation: ≥ 32 mm during installation: ≥ 64 mm
Operating way:	max. 1 m
Speed:	max. 60m/min
Cycles:	min. 2 million
Acceleration:	max. 8.7 m/s²
Tensile force:	max. 400 N
Weight:	58.4 kg/km

Patch Cable PROFINET Typ C SF/UTP AWG22/7 Cat.5



Environment and Security

Temperature range:	during operation:	-40 °C to +85 °C
	during installation:	0 °C to +50 °C
Fire load:		736 MJ/km
Oil resistance:		Oil-resistant acc. to DIN EN 60811-403
UV resistance:		UV-resistant acc. to IEC 60068-2-5 (2 cycles of procedure B)
Silicone-free; CFC-free		

Electrical properties (typical at 20°C)

Characteristic impedance Z_0 (1-100 MHz):	100 $\pm$ 5 Ω
Nominal velocity of propagation NVP:	ca. 67%
Propagation delay:	$\leq$ 498 ns/100m
Delay skew:	$\leq$ 45 ns/100m
Loop resistance:	$\leq$ 14.16 Ω /100m
Resistance unbalance:	pair: $\leq$ 2% between the pairs: $\leq$ 2%
Insulation resistance (500V):	$\geq$ 50 M Ω x100m
Mutual capacitance (at 1000 Hz):	5.1 nF/100m
Capacitance unbalance (pair/ground):	$\leq$ 160 pF/100m
Test voltage (DC, 60 sec.) (core/core und core/screen):	1000 V
UL-Rating:	600 V
Transfer impedance (m Ω /m):	Grade 2
Coupling attenuation:	Type Ib
Segregation classification:	c

Transmission properties (at 20°C)

Has been verified as being compliant with the standards.

Order No. old / new	Standard designation	Scope of delivery	Copper content kg/km
L02002A0207T / 100033545	Li-2YH(ST)C11Y 2x2x0.76 PUR	1000 m Disposable wooden drum	30.6

Drum dimensions for	L02002A0207B / 100033545
Drum type:	wooden drum (disposable)
Flange diameter d1:	450 mm
Core diameter d2:	220 mm
Central hole:	55 mm
Overall width:	450 mm
Winding width:	400 mm
Drum/EPAL:	6

The editions of the afore mentioned standards by the time of 15.04.2021 are valid.