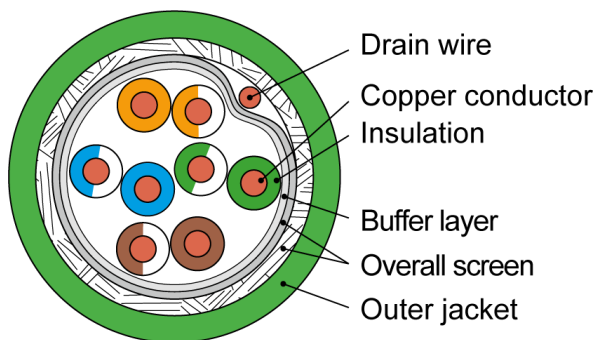




Application

IEC 11801-1:	Class D
EN 50173-1:	Class D
IEEE 802.3:	10Base-T; 100Base-T; 1000Base-T
IEEE 802.3:	Power over Ethernet PoE; PoE+

Applicable Standards

Design specification:	EN 50288-2-1, EN 50174-2, IEC 14763-2, IEC 61156-2
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Fire behaviour

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

Construction

Construction:	SF/UTP
Conductor:	bare copper wire Ø 0.52 mm (AWG24/1)
Insulation:	Polyethylene, Ø 1.01 mm
Twisting:	2 cores to the pair
Cable lay up:	4 pairs
Buffer layer:	Mylar tape
Drain wire:	Copper wire, tinned Ø 0.52 mm (AWG 24/1)
Overall screen:	Aluminium-laminated plastic foil, conducting side outward and copper braid, tinned with min. 60% coverage
Outer jacket:	PUR, green RAL 6018
Cable marking blue:	Cat.5 SF/UTP 4x2xAWG24/1 PUR NVP 67% IEC 60332-1 "production batch no." "sequential length in meters" 

Mechanical properties

Outer diameter:	6.5 ± 0.2 mm
Bending radius:	during operation: ≥ 26 mm
	during installation: ≥ 52 mm
Tensile force:	max. 100 N
Weight:	51 kg/km

Installation Cable SF/UTP AWG24/1 Cat.5 PUR



Environment and Security

Temperature range:	during operation:	-40 °C to +85 °C
	during installation:	0 °C to +50 °C
Fire load:	502 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)	

Electrical properties (typical at 20°C)

Characteristic impedance Z_0 (1-100 MHz):	100 ± 15 Ω
Nominal velocity of propagation NVP:	ca. 67%
Propagation delay:	≤ 498 ns/100m
Delay skew:	≤ 30 ns/100m
Loop resistance:	18.1 Ω/100m max. 19 Ω/100m
Resistance unbalance:	pair: ≤ 2% between the pairs: ≤ 4%
Insulation resistance (500V):	≥ 500 MΩx100m
Mutual capacitance (at 1000 Hz):	5.1 nF/100m
Capacitance unbalance (pair/ground):	≤ 160 pF/100m
Test voltage (DC, 60 sec.) (core/core und core/screen):	1000 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.

Order No. old / new	Standard designation	Scope of delivery	Copper content kg/km
L02002C0070 / 100013206	J-2Y(ST)C11Y 4x2x0.52 PUR	305 m (1000 ft) disposable wooden drum	-

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