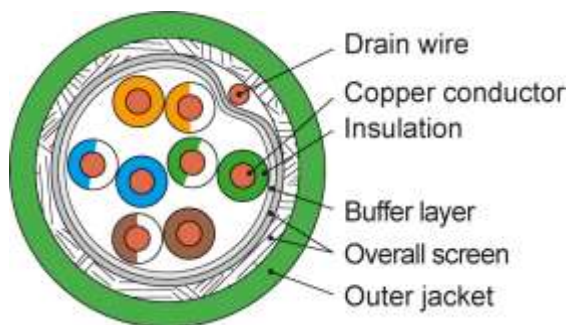


Installation Cable SF/UTP AWG24/1 Cat.5 PVC



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

Construction

Construction:	SF/UTP
Conductor:	stranded 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 (AWG24/1)
Overall screen:	Aluminium-laminated plastic foil, conducting side outward and copper braid, tinned, with min. 60% coverage
Outer jacket:	PVC, green RAL 6018
Cable marking blue:	Cat.5 SF/UTP 4x2xAWG24/1 PVC E344985 AA c(UL)us CM 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:	52 kg/km

Environment and Security

Temperature range:	during operation: -40 °C to +75 °C
	during installation: 0 °C to +50 °C
Fire load:	404 MJ/km

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Electrical properties (typical at 20°C)

Characteristic impedance Z_c (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 MΩxkm	
Mutual capacitance (at 1000 Hz):	5.1 nF/100m	
Capacitance unbalance (pair/ground):	≤ 160 pF/100m	
Test voltage (DC, 60 sec.) (core/core):	1000 V	
Transfer impedance (mΩ/m):	Grade 2	
Coupling attenuation:	Level 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
L02002C0069 / 100013205	J-2Y(ST)CY 4x2x0.52 PVC	305m (1000ft) disposable wooden drum	-

The editions of the afore mentioned standards by the time of 27.09.2022 are valid.