

Application

IEC 11801-1:	Class E
EN 50173-1:	Class E
IEEE 802.3:	10Base-T; 100Base-T; 1000Base-T; 2.5GBase-T; 5GBase-T; 10GBase-T
IEEE 802.3:	Power over Ethernet PoE; PoE+



Applicable Standards

Design specification:	EN 50288-6-1, EN 50174-2, IEC 14763-2, IEC 61156-5; EN 50575+A1
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Fire behaviour

Euroclass:	Dca
Smoke production:	s2
Flaming droplets:	d0
Acidity:	a1
Flame retardant:	IEC 60332-1-2
Halogen free:	IEC 60754-2
Smoke density:	IEC 61034

Construction

Construction:	U/UTP
Conductor:	Bare copper wire, Ø 0.54 mm (AWG23/1)
Insulation:	Polyethylene, Ø 0.97 mm
Twisting:	2 cores to the pair
Cable lay up:	4 pairs and a non metallic circular filler
Outer jacket:	LSZH, blue RAL 5012
Cable marking black:	Telegärtner UMJ 300 U/UTP 4x2xAWG23/1 Cat.6 LSZH Dca-s2,d0,a1 NVP 69% „production batch no“ „sequential length in meters“  

Mechanical properties

Outer diameter:	5.8 ± 0.2 mm
Bending radius:	during operation: ≥ 24 mm during installation: ≥ 48 mm
Tensile force:	max. 100 N
Weight:	41 kg/km

Environment and Security

Temperature range:	during operation: -30 °C to +70 °C during installation: -10 °C to +50 °C
Fire load:	350 MJ/km

Electrical properties (typical at 20°C)

Characteristic impedance Z (1-100 MHz):	100 ± 5 Ω	
Nominal velocity of propagation NVP:	ca. 69%	
Propagation delay:	≤ 534+36/√f ns/100m	
Delay skew:	≤ 45 ns/100m	
Loop resistance:	14.95 Ω/100m max. 16.5 Ω/100m	
Resistance unbalance:	pair:	≤ 2%
	between the pairs:	≤ 4%
Insulation resistance (500V):	≥ 500 MΩx100m	
Mutual capacitance (at 1000 Hz):	< 5.0±0.5 nF/100m	
Capacitance unbalance (pair/ground):	≤ 160 pF/100m	
Test voltage (DC, 60 sec.) (core/core):	1000 V	
Transfer impedance (mΩ/m):	-	
TCL:	Level 2	
Segregation classification:	b	

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
L02002A0262 / 100013181	J-2YH 4x2x0,54 LSZH	500m disposable wooden drum	19

Drum dimensions for:	L02002A0262 / 100013181
Drum type:	wooden drum
Flange diameter d1:	400 mm
Core diameter d2:	148 mm
Central hole:	80 mm
Overall width:	245 mm
Winding width:	230 mm
Drum/EPAL:	12

The editions of the afore mentioned standards by the time of 12.04.2021 are valid.