



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
-----------------------	--

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
Tencile 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:	max. 350 MJ/km

Installation Cable

UMJ 300 U/UTP AWG23/1 Cat.6 LSZH Dca-s2,d0,a1



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:	≤ 16,5 Ω/100m
Resistance unbalance:	pair: ≤ 2% between the pairs: ≤ 4%
Insulation resistance (500V):	≥ 500 MΩx100m
Nominal capacity (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.	Standard designation	Scope of delivery	Copper content kg/km
L02002A0262	J-2YH 4x2x0,54 LSZH	500m disposable wooden drum	19

Drum dimensions for:	L02002A0262
Drum Type:	wooden drum
Flange outer diameter d1:	400 mm
Flange inner diameter d2:	148 mm
Central hole / core hole:	80 mm
Overall width:	245 mm
Winding width:	230 mm

The editions of the afore mentioned standards by the time of 25.08.2017 are valid.