

### Application

IEC 11801-1:	Class E <sub>A</sub>
EN 50173-1:	Class E <sub>A</sub>
IEEE 802.3:	10Base-T; 100Base-T; 1000Base-T; 2.5GBase-T; 5GBase-T; 10GBase-T
IEEE 802.3:	Power over Ethernet PoE; PoE+; 4PPoE




### Applicable Standards

Design specification:	EN 50288-10-1, 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:	d2
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 0.56 mm (AWG23/1)
Insulation:	Polyethylene Ø 1.12 mm & Foam skin Polyethylene Ø 1.23 mm
Twisting:	2 cores to the pair
Cable lay up:	4 pairs and a non metallic cross separator (spline)
Outer jacket:	LSZH, blue RAL 5015
Cable marking blue:	Telegärtner UMJ 500 U/UTP 4x2xAWG23/1 Cat.6A LSZH Dca-s2,d2,a1 NVP 67% ETL verified to ISO/IEC 11801 „production batch no“ „sequential length in meters“   

### Mechanical properties

Outer diameter:	7.2 ± 0.5 mm
Bending radius:	during operation: ≥ 28,8 mm during installation: ≥ 57,6 mm
Tensile force:	max. 100 N
Weight:	54.5 kg/km

### Environment and Security

Temperature range:	during operation: -20 °C to +60 °C during installation: 0 °C to +50 °C
Fire load:	784 MJ/km

# Installation Cable

## UMJ 500 U/UTP AWG23/1 Cat.6A LSZH Dca-s2,d2,a1



### Electrical properties (typical at 20°C)

Nominal velocity of propagation NVP:	ca. 67%
Propagation delay:	$\leq 534 + 36 \sqrt{f}$ ns/100m
Delay skew:	$\leq 45$ ns/100m
Loop resistance:	max. 19 $\Omega$ /100m
Resistance unbalance:	pair: $\leq 2\%$ between the pairs: $\leq 5\%$
Insulation resistance (500V):	$\geq 500$ M $\Omega$ x100m
Capacitance unbalance (pair/ground):	$\leq 160$ pF/100m
Test voltage (DC, 60 sec.) (core/core):	1000 V
Transfer impedance (m $\Omega$ /m):	-
TCL:	Level 1
Segregation classification:	a

### 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
100124686	J-2YH 4x2x0,56 LSZH	305m (1000ft) wooden drum (disposable) Palette ISPM15 compliant	19,95

<b>Drum dimensions for:</b>	<b>100124686</b>
Drum type:	wooden drum (disposable)
Flange diameter d1:	350 mm
Core diameter d2:	150 mm
Central hole:	55 mm
Overall width:	260 mm
Winding width:	240 mm
Drum/EPAL:	30

The editions of the afore mentioned standards by the time of 11.08.2023 are valid.