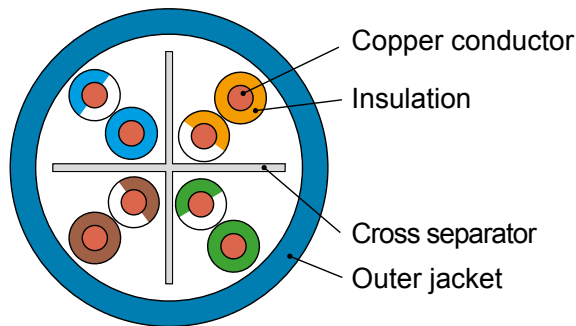


# Installation Cable UMJ300 U/UTP AWG23/1 Cat.6



## Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)  
 IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T;  
 IEEE 802.5: 16MB; ISDN; TPDDI; ATM

## Standards

DIN EN 50173-1; EN 50288-6-1; ISO/IEC 11801; IEC 61156-5; EIA/TIA 568-C.2

## Flame resistance

IEC 60332-1; IEC 60754-2; IEC 61034

## Construction

Conductor	bare copper wire Ø 0,56 mm (AWG23/1)
Insulation	Polyethylene, Ø 1,0 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs and a non metallic cross separator (spline)
Outer jacket	LSZH, blue RAL 5012
Cable marking: black	TELEGÄRTNER UMJ 300 U/UTP 4x2xAWG23/1 LSZH Cat.6 IEC 60332-1 NVP 69% „production batch no.“ „sequential length in meters“

## Mechanical properties

Bending radius	≥ 50 mm installation ≥ 25 mm installed
Temperature range	during operation: -20 °C up to +70 °C during installation: 0 °C up to +50 °C

## Electrical properties

at 20°C ± 5°C

Loop resistance	≤ 89 Ω/km
Insulation resistance (500V)	≥ 5000 MΩxkm
Mutual capacitance (at 1 kHz)	nom. 5,2 nF/100m
Characteristic impedance	(1-100 MHz) (85 - 115) Ω
	(100-350 MHz) (78 - 122) Ω

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Nominal velocity of propagation	ca.69%
Propagation delay	≤ 518 ns/100m
Delay skew	≤ 40 ns/100m
Test voltage (DC, 1min) (core/core)	1000 V

## Transmission properties

at 20°C ± 5°C

have been verified as being compliant with the standards.

Order No.	Standard designation	Scope of delivery	Outer diameter mm	Weightt kg/km	Fire load	
					MJ/km	kWh/m
L02002A0094	J-2YH 4x2x0,56 LSZH	500 m drum	6,2	40	590	0,163