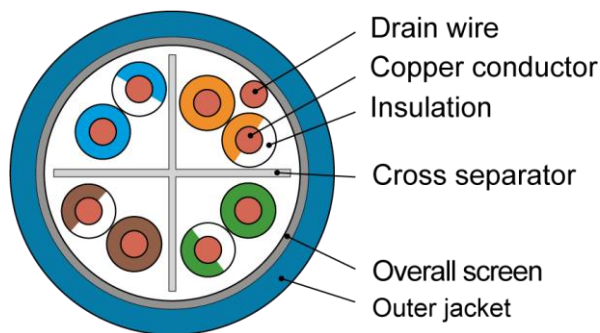


Installation Cable AMJ 300 F/UTP AWG23/1 Cat.6 LSZH Dca-s2,d0,a1



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
IEEE 802.3:	Power over Ethernet PoE; PoE+




Applicable Standards

Design specification:	EN 50288-5-1, 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:	F/UTP
Conductor:	Bare copper, wire, Ø 0.54 mm (AWG23/1)
Insulation:	Polyethylene, Ø 1.05 mm
Twisting:	2 cores to the pair
Cable lay up:	4 pairs and a non metallic cross separator (spline)
Drain wire:	Copper wire, tinned Ø 0.4 mm AWG26/1
Overall screen:	Aluminium-laminated plastic foil, with foil facing inward
Outer jacket:	LSZH, blue RAL 5012
Cable marking black:	Telegärtner AMJ 300 F/UTP 4x2xAWG23/1 Cat.6 LSZH Dca-s2,d0,a1 NVP 69% „production batch no.“ „sequential length meters“   

Mechanical properties

Outer diameter:	7.1± 0.2 mm	
Bending radius:	during operation:	≥ 28 mm
	during installation:	≥ 56 mm
Tensile force:	max. 100 N	
Weight:	48 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	

Installation Cable

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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:	15.2 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):	Grade 2
Coupling attenuation:	Type 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
L02002A0263 / 100013182	J-2Y(St)H 4x2x0,54 LSZH	500m disposable wooden drum	20,0

Drum dimensions for:	L02002A0263 / 100013182
Drum type:	wooden drum (disposable)
Flange diameter d1:	400 mm
Core diameter d2:	148 mm
Central hole:	80 mm
Overall width:	415 mm
Winding width:	400 mm
Drum/EPAL:	12

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