



Application

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

Applicable Standards

Design specification:	EN 50288-2-1, 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 0,5 mm (AWG24/1)
Insulation:	Polyethylen, Ø 0,92 mm
Twisting:	2 core to the pair
Cable lay up:	4 pairs
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 200 F/UTP 4x2xAWG24/1 Cat.5 LSZH Dca-s2,d0,a1 NVP 69% „production batch no.“ „sequential length meters“

Mechanical properties

Outer diameter:	5,9 ± 0,2 mm
Bending radius:	during operation: ≥ 24 mm during installation: ≥ 48 mm
Tencile force:	max. 100 N
Weight:	37 kg/km

Environment and Security

Temperature range:	during operation: -30 °C bis +70 °C during installation: -10 °C bis +50 °C
Fire load:	max. 200 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:	≤ 19 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):	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.	Standard designation	Scope of delivery	Copper content kg/km
L02002A0261	J-2Y(St)H 4x2x0,5 LSZH	500m disposable wooden drum	16

Drum dimensions for:	L02002A0261
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.