

## 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 50288-2-2, IEC 61156-3
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## Fire behaviour

Euroclass:	-
Smoke production:	-
Flaming droplets:	-
Acidity:	-
Flame retardant:	IEC 60332-1; UL 1581 FT2 (horitontal flame test)
Halogen free:	-
Smoke density:	-

## Construction

Construction:	F/UTP
Conductor:	stranded bare copper wire, Ø 0.48 mm (AWG26/7)
Insulation:	Polyethylene, Ø 0.92 mm
Twisting:	2 cores to the pair
Cable lay up:	4 pairs
Drain wire:	stranded copper wire, tinned Ø 0.58 mm (AWG24/7)
Overall screen:	Aluminium-laminated plastic foil, conducting side inward
Outer jacket:	PVC, grey RAL 7035
Cable marking blue:	Telegärtner F/UTP 4x2xAWG26/7 Cat.5 PVC PATCH CABLE AWM STYLE 2835 E81280 IEC 60332-1 

## Mechanical properties

Outer diameter:	5.4 ± 0.2 mm	
Bending radius:	during operation:	≥ 22 mm
	during installation:	≥ 44 mm
Tensile force:	max. 60 N	
Weight:	32 kg/km	

## Environment and Security

Temperature range:	during operation:	-20 °C to +60 °C
	during installation:	0 °C to +50 °C
Fire load:	353 MJ/km	

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

Characteristic impedance $Z_c$ (1-100 MHz):	100 ± 15 Ω	
Nominal velocity of propagation NVP:	ca. 67%	
Propagation delay:	≤ 498 ns/100m	
Delay skew:	≤ 45 ns/100m	
Loop resistance:	26.98 Ω/100m max. 29 Ω/100m	
Resistance unbalance:	pair:	≤ 2%
	between the pairs:	≤ 4%
Insulation resistance (500V):	≥ 500 MΩx100m	
Mutual capacitance (at 1000 Hz):	5.1 nF/100m	
Capacitance unbalance (pair/ground):	≤ 160 pF/100m	
Test voltage (DC, 60 sec.) (core/core and core/screen):	1000 V	

### Transmission properties (at 20°C)

Has been verified as being compliant with the standards.

Order-Nr. old / new	Standard designation	Scope of delivery	Copper content kg/km
L02002A0042 / 100013067	Li-2Y(St)Y 4x2x0.48	305m (1000ft) easy reel box	-
L02002A0043 / 100013068	Li-2Y(St)Y 4x2x0.48	100m roll	-

The editions of the afore mentioned standards by the time of 08.06.2022 are valid.