

Application

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


Applicable Standards

Design specification:	EN 50288-6-2; IEC 61156-6
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Fire behaviour

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

Construction

Construction:	U/UTP
Conductor:	stranded bare copper wire, Ø 0.58 mm (AWG24/7)
Insulation:	Polyethylene, Ø 0.96 mm
Twisting:	2 cores to the pair
Cable lay up:	4 pairs
Outer jacket:	PVC, grey RAL 7035
Cable marking blue:	Telegärtner U/UTP 4x2xAWG24/7 Cat.6 PVC PATCH CABLE 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:	33 kg/km

Environment and Security

Temperature range:	during operation: -20 °C to +60 °C during installation: 0 °C to +50 °C
Fire load:	302 MJ/km

Patch Cable

U/UTP AWG24/7 Cat.6 PVC



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:	18.58 Ω/100m max. 29 Ω/100m
Resistance unbalance:	pair: ≤ 2 % between the pairs: ≤ 5 %
Insulation resistance (500 V):	≥ 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):	1000 V

Transmission properties (at 20 °C)

Has been verified as being compliant with the standards.

TG part number old / new	Standard designation	Scope of delivery	Copper content kg/km
L02002A0062 / 100013078 grey RAL 7035	Li-2YY 4x2x0.58 PVC	305 m (1000 ft) easy reel box	-

Printing errors and technical changes reserved

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