

## 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+   |

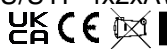
## Applicable Standards

|                       |                         |
|-----------------------|-------------------------|
| Design specification: | EN50288-3-2, IEC61156-3 |
|-----------------------|-------------------------|

## 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, $\varnothing$ 0.58 mm (AWG24/7)   |
| Insulation:          | Polyethylene, $\varnothing$ 0.95 mm  |
| Twisting:            | 2 cores to the pair  |
| Cable lay up:        | 4 pairs  |
| Outer jacket:        | PVC  |
| Cable marking blue:  | Telegärtner U/UTP 4x2xAWG24/7 Cat.5 PVC PATCH CABLE<br>IEC 60332-1  |
| Cable marking white: | on black cable jacket  |

## Mechanical properties

|                 |   |
|-----------------|---|
| Outer diameter: | 5.4 ± 0.2 mm  |
| Bending radius: | during operation: ≥ 22 mm<br>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<br>during installation: 0 °C to +50 °C |
| Fire load:         | max. 468 MJ/km  |

# Patch Cable U/UTP

## U/UTP AWG24/7 Cat.5 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:                            | 18.3 Ω/100m<br>max. 29 Ω/100m |       |
| Resistance unbalance:                       | pair:                         | ≤ 2 % |
|   | between the pairs:            | ≤ 4 % |
| 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.)<br>(core/core):  | 1000 V                        |       |

### Transmission properties (at 20 °C)

Has been verified as being compliant with the standards.

| TG part number<br>old / new                   | Standard designation | Scope of delivery             | Copper content<br>kg/km |
|---|----------------------|-------------------------------|-------------------------|
| L02002A0040 /<br>100013065<br>grey RAL 7035   | Li-2YY 4x2x0.58 PVC  | 305 m (1000 ft)<br>unreel box | -                       |
| L02002A0041 /<br>100013066<br>grey RAL 7035   | Li-2YY 4x2x0.58 PVC  | 100 m<br>roll                 | -                       |
| L02002A0051 /<br>100013070<br>yellow RAL 1018 | Li-2YY 4x2x0.58 PVC  | 100 m<br>roll                 | -                       |
| L02002A0053 /<br>100013071<br>blue RAL 5015   | Li-2YY 4x2x0.58 PVC  | 100 m<br>roll                 | -                       |
| L02002A0054 /<br>100013072<br>green RAL 6024  | Li-2YY 4x2x0.58 PVC  | 100 m<br>roll                 | -                       |
| L02002A0055 /<br>100013073<br>red RAL 3018    | Li-2YY 4x2x0.58 PVC  | 100 m<br>roll                 | -                       |
| L02002A0056 /<br>100013074<br>black RAL 9011  | Li-2YY 4x2x0.58 PVC  | 100 m<br>roll                 | -                       |

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