

tBL<sup>®</sup> - Patch Panel 19" 1U 24x RJ45 Cat.6<sub>A</sub>, termination block AWG 22-24



## tBL<sup>®</sup> - tde Basic Link (TP)

tBL<sup>®</sup> tde Basic Link (TP) is a complete system solution for structured cabling in Cat6A for transfer rates of up to 10GbE in real time. The tBL<sup>®</sup> - cabling link corresponds to a permanent link in accordance with ISO / IEC 11801 (EN 50173). The RJ45 modules are available in the form factors Keystone (KS) and Data Center (DC). The compact design of the 6fold RJ45 DC module allows a high packing density of up to 48 RJ45 ports on 1U. The RJ45 module is connected to the tBL<sup>®</sup> - cable termination block by simply plugging. The slim cable termination block can be easily assembled on the cable by using the tBL<sup>®</sup> - crimp tool and is suitable for preterminated cables. The modular design of individual RJ45 modules are interchangeable at any time without termination. The RJ45 modules are optional with a LID - Light ID function available. This feature facilitates searching of related ports within a cable link. A cost effective alternative product is the RJ45 keystone module without cable termination block in the tool-less design.

The system solution is complemented by an extensive portfolio of carrier systems. These include design-capable data outlets, floor box frames, Consolidation points, DIN rail modules and patch panels in 1/2 and 1U.



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## Technical Data

|               |  |
|---------------|--|
| Pre-assembled | 24 x RJ45 Keystone modules shielded Kat.6 <sub>A</sub> ISO/IEC set incl. cable termination block AWG 22 - 24 |
|---------------|--|

### tBL<sup>®</sup> - RJ45 Keystone Module Cat.6<sub>A</sub> ISO/IEC, termination block AWG 22-24

#### Mechanical properties

|                                |                             |
|--------------------------------|-----------------------------|
| Type                           | RJ45 Jack shielded          |
| Connector standard             | IEC 60603-7-5-1             |
| Installation dimension         | 19.3 x 14.7 mm              |
| Mating force                   | ≤ 30 N                      |
| Mating cycles (RJ45 side)      | ≥ 750                       |
| Mating cycles (opposite side)  | ≥ 100                       |
| Housing material               | nickel-plated die-cast zinc |
| Insulation components material | PC aqua                     |
| Gold plating in contact area   | 50 μ"                       |
| Gold plating IDC               | 30 μ"                       |
| Cable diameter                 | 5-10 mm                     |

#### Environmental requirements

|                   |                |
|-------------------|----------------|
| Connection class  | IP20           |
| Temperature range | -40°C to +70°C |

#### Electrical properties

|   |                |
|---|----------------|
| Contact resistance                                | ≤ 20 mΩ        |
| Insulation resistance between contacts            | ≥ 500 MΩ       |
| Dielectric withstanding voltage contact – contact | ≥ 1000 V DC/AC |
| Dielectric withstanding voltage contact – screen  | ≥ 1500 V DC/AC |
| Current-carrying capacity at 50°C                 | 1.25 A         |
| PoE+ per IEEE 802.3at                             | PoE+           |

#### Transmission characteristics

|                    |  |
|--------------------|--|
| 10 GbE             | supported                                      |
| Cat.6 <sub>A</sub> | ISO/IEC 11801 AM1 and AMD2, Link length: > 1 m |

### tBL<sup>®</sup> - termination block AWG 22-24, transparent yellow for installation cables

|                                |   |
|--------------------------------|---|
| Construction                   | plastic with insulation displacement connection |
| Gold plating termination block | 30 μ"   |

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|             |  |
|-------------|--|
| Color       | transparent yellow   |
| Application | Installation cable with solid wire, AWG 22 to AWG 24 and flex.   |
|             | Plug bears small flag-like installation guide with color codes for pin-out according to EIA/TIA 568 A and B. |

## Product variants & accessories

| Art.-No.           | Description   |
|--------------------|---|
| TBL-P24RJ45KS/KT22 | tBL <sup>®</sup> - Patch Panel 19" 1U 24x RJ45 Cat.6 <sub>A</sub> , termination block AWG 22-24 |
| TBL-P24RJ45KS/KT26 | tBL <sup>®</sup> - Patch Panel 19" 1U 24x RJ45 Cat.6 <sub>A</sub> , termination block AWG 26-27 |
| TBL-P24RJ45KS-W/O  | tBL <sup>®</sup> - Patch Panel 19" 1U, for 24x RJ45 Keystone modules, RAL 7035                  |