

tBL[®] - RJ45 DC 6fold Module Cat.6_A ISO/IEC, termination block AWG 22-24



tBL[®] - tde Basic Link (TP)

tBL[®] 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[®] - 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[®] - cable termination block by simply plugging. The slim cable termination block can be easily assembled on the cable by using the tBL[®] - 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

System platforms	tML [®] / tSML
	4x tBL [®] - 6fold Modules can be integrated in a tSML - TP Module.
	1x tBL [®] - 6fold Module can be integrated in a tML [®] - TP Module.
Equipping	6x tBL [®] RJ45 DC Module Cat.6 _A

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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	30 μ"
Contacting	AWG 27-22
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 _A	ISO/IEC 11801 AM1 and AMD2, Link length: >1 m

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tBL[®] - termination block AWG 22-24, transparent yellow for installation cables

Construction	plastic with insulation displacement connection
Gold plating termination block	30 μ"
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-DC/KS-UL-TOOL	tBL [®] - Un Locking tool for opening the RJ45 modules
TBL-KT-CAP	tBL [®] - Pulling Aid for cable termination block
TBL-KT-TOOL	tBL [®] - Crimp tool for crimping the cable termination blocks AWG 22-27
TBL-RJ45DCX6	tBL [®] - RJ45 DC 6fold Module Cat.6 _A ISO/IEC
TBL-RJ45DCX6/KT22	tBL [®] - RJ45 DC 6fold Module Cat.6 _A ISO/IEC, termination block AWG 22-24
TBL-RJ45DCX6/KT26	tBL [®] - RJ45 DC 6fold Module Cat.6 _A ISO/IEC, termination block AWG 26-27