tde
trans data elektronik GmbH

net. work. solution. made in Germany

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. 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$_A$

tBL® - RJ45 DC-Module Cat.6$_A$ ISO/IEC w/o termination block, GHMT certified

Mechanical properties

Type	RJ45 Jack shielded
Connector standard	IEC 60603-7-5-1
Certification	GHMT
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

Product variants & accessories

Art.-No.	Description
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