

tML<sup>®</sup> - RJ45 DC 6fold Module Cat.6<sub>A</sub> ISO/IEC with LID



## tML<sup>®</sup> - tde Modular Link

tML<sup>®</sup> is a patented, modular cabling system consisting of the three key components module, trunk cable and rack mount enclosure. The system components are 100 percent manufactured, pre-assembled and tested in Germany. They enable plug-and-play installation on site - especially in data centres, but also in industrial environments - within the shortest possible time. The system is characterized by highest packing density and highest flexibility during migration to higher transmission rates. Fibre optic and TP modules can be combined in one rack mount enclosure. 96x fibre optics LC Duplex or 96x MPO connectors can be used modularly on a 19-inch height unit. Thanks to its patented polarity and dark fibre modules, the tML system offers the simplest migration options to 100G and more.



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### Technical Data

System platforms	tML <sup>®</sup> / tSML
	4x tBL <sup>®</sup> - 6fold Modules can be integrated in a tSML - TP Module.
	1x tBL <sup>®</sup> - 6fold Module can be integrated in a tML <sup>®</sup> - TP Module.
Equipping	6x tBL <sup>®</sup> RJ45 DC Module Cat.6 <sub>A</sub>

### tBL<sup>®</sup> - RJ45 DC-Module Cat.6<sub>A</sub> ISO/IEC with LID w/o termination block

#### Mechanical properties

Type	RJ45 Jack shielded LID
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 opak
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	--
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

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### LiD Function

supply voltage	12 V DC
lightdetection	≥200 m
light exits	≤20

### Product variants & accessories

Art.-No.	Description
TML-RJ45DCLX6	tML <sup>®</sup> - RJ45 DC 6fold Module Cat.6 <sub>A</sub> ISO/IEC with LID
TML-RJ45DCX6	tML <sup>®</sup> - RJ45 DC 6fold Module Cat.6 <sub>A</sub> ISO/IEC