

tML[®] - RJ45 DC 6fold Module Cat.6_A ISO/IEC with LID



tML[®] Xtended

tML[®] 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. Heart of the system are the rear MPO/MTP[®] and Telco connectors, which can be used to connect at least six or twelve ports at a time. Depending on the module configuration, transfer rates of up to 200G are currently possible with SR4. The fibre optic and TP modules can be used together in a module carrier with a very high port density. The tde offers its tML[®] cabling system as a proven tML[®] standard system and in the highly innovative variants tML[®] 12, tML[®] 24, tML[®] 32 and now tML[®] 24+ System for extreme scalability and very easy migration to higher transmission rates such as 40G, 100G, 200G, 400G and 800G and more.



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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 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 _A	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 [®] - RJ45 DC 6fold Module Cat.6 _A ISO/IEC with LID
TML-RJ45DCX6	tML [®] - RJ45 DC 6fold Module Cat.6 _A ISO/IEC