

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



tML[®] - tde Modular Link

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[®] Xtended, tML[®] 24 System and now tML[®] 32 System for extreme scalability and very easy migration to higher transmission rates such as 40G, 100G, 200G and 400G.



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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 |