tML® - FO Trunk Cable MPO/MTP® Female/Male 12G50/125µ OM4 LSOH, Type C, Length: xx

\*\*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 400G 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.

\*\*tML® Standard- FO Patch cords MPO/MTP® SR4

The tML® - FO patch cord is intended for the connection of tML®- FO Modules for migration to 40GbE.

\*\*TECHNISCHE\_DATEN

The tML®- FO trunk cable is preterminated with MPO/MTP®connectors on both ends. The Cable is very slim and flexible. The end faces of the connectors are optimized by means of Lasercleaving and machine polish. The MPO/MTP®plug has a defined fiber hieght of 1 - 3.5µ. The max. adjacent fiber height difference is 0.2µm and for all fibers 0.3µm. All system components (modules, trunk cables and patch cords) are co-ordinated for the reaching of the performance particularly. The module is marked with sequential serial number and article number.

|  |  |
| --- | --- |
| Cable | Round cable 3 mm, loose tube, LSOH, magenta |
| Connectors | MPO/MTP®Female/Male Push Pull (magenta) |
| Pin out | Crossover (TIA/EIA-568-B.1 Methode C) |
| Tests | Interferometer, Insertion Loss, Return Loss and Visual Final Inspection; all measured values are electronically archived |
|   | QS-Managementsystem ISO 9001, ISO 14001 and TL 9000 |

xx - stands for the cable length in meters (every length available)

\*\*\*FO Connectors

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|  |  |
| --- | --- |
| Type | MPO/MTP® Female Push Pull Locking (Magenta) |
| Ferrule | 12 Fiber MM Elite® ferrule, PPS |
| Boot colour | Black |
| Manufacturer | tde/US Conec |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Fiber | Type | Wavelength | Insertion loss typ. | Insertion loss max. | Return loss min. |
| 50/125µ OM4 | MPO/MTP® | 850 /1300 nm | ≤ 0.12 dB | 0.25 dB | 35 dB |

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The end faces of the connectors are optimized by means of Lasercleaving and machine polish. The MPO/MTP® plug has a defined fiber height of 1 - 3.5µ. The max. adjacent fiber height difference is 0.2µm and for all fibers 0.3µm.

|  |  |
| --- | --- |
| Type | MPO/MTP® Male Push Pull Locking with Elite Pins (magenta) |
| Ferrule | 12 Fiber MM Elite® ferrule, PPS |
| Boot colour | Black |
| Manufacturer | tde/US Conec |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
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\*\*\*FO Cables

|  |  |
| --- | --- |
| Standards | EN 50173-5 |
|   | IEC 60794-2-20 |
|   | ISO/IEC 24764 |
| Flame resistance | IEC 60332-1-2 |
|   | IEC 60332-2-2 |
|   | IEC 60754-1 |
|   | IEC 60754-2 |
|   | IEC 61034 |

|  |  |
| --- | --- |
| Type | IVH12G50-OM4 |
| Loose tube | 12 coated fibers within PVC-core tube |
| Wall thickness PVC-tube | 0.20 mm – 0.25 mm  |
| Fiber type | MM-OM4, 50/125µ, Corning ClearCurve OM4 |
| Strength members | Aramid yarn |
| Outer jacket | LSZH (Halogen free, low smoke, flame retardant thermoplastic compound) |
| Jacket color | Magenta, RAL 4003 |
| Identification | "t d e – IVH12G50-MPO-OM4 LSZH" and sequential meter marking + Lot number |

|  |  |
| --- | --- |
| Outer diameter cable | 3.0 ± 0.1 mm |
| Diameter PVC-core tube | 1.8 ± 0.1 mm |
| Max. tensile load | 300 N |
| Min. bending radius | 30 mm |
| Temperature range (storage, installation, operation) | -20°C to +70°C |