tML® 24 - FO Micro Distribution Trunk Cable both sides 1x 24F MPO w. Pins 24G50/125µ OM4 LSHF, Type A, Length: xx in m

\*\*tML® 24

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

\*\*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.

\*\*tML® 24 - FO Trunk Cables MPO/MTP®

The tML® - FO Micro Distribution trunk cable is intended for the connection of two tML® 24 - FO Modules.

\*\*TECHNISCHE\_DATEN

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.

|  |  |
| --- | --- |
| Cable | Round cable 3.6 mm, loose tube, LSOH, magenta |
| Connectors | MPO/MTP®Push Pull (magenta) |
| Pin out | Type A |
| 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 |

\*\*\*FO Connectors

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 | 24 Fiber MM Elite® ferrule, PPS |
| Boot colour | Red |
| Temperature range | -40°C to +75°C |
| Manufacturer | tde/US Conec |

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

\*\*\*FO Cables

|  |  |
| --- | --- |
| Standards | EN 50173-5 |
|   | IEC 60794-2-20 |
|   | ISO/IEC 24764 |

|  |  |
| --- | --- |
| Type | IVH24G50-OM4 |
| Fiber | 24 primary coated fibres nominally 242 μm, arranged in 2 groups of 12 fibres, Group 1: Red id tread Group 2: Green id tread |
| Fiber colors | According to TIA/EIA 598-C also in agreement with IEC 60304: 1-12: Blue, orange, green, brown, grey, white, red, black, yellow, violet, pink and aqua |
|   | 13-24: Blue, orange, green, brown, grey, white, red, transparent, yellow, violet, pink and aqua (with add. ring mark) |
| Strength member | Ultra high modulus Aramid yarns |
| Sheath | Halogen free, flame resistant thermoplastic sheathing compound acc. to EN 50290-2-27, UV stabilised |
| Sheath colors | Magenta, RAL 4003 |

|  |  |
| --- | --- |
| IEC 60332-1-2 | Pass |
| IEC 60332-2-2 | Pass |
| IEC 60754-1 | No halogens |
| IEC 60754-2 | No acid matters |
| IEC 61034-2 | No dense smoke |

|  |  |
| --- | --- |
| 200 MJ/km | 0.5 KWh/m |

|  |  |
| --- | --- |
| Outer diameter cable | ø3.6 mm +0.1 mm -0.3 mm |
| Diameter PVC-core tube | 2.0 ± 0.1 mm |
| Wall thickness PVC-core tube | 0.35 mm – 0.40 mm |
| Weight | 11 kg/km |
| Tensile strength (dynamic) | 220 N |
| Tensile strength (permanent) | 110 N |
| Compressive strength (crush) | 400 N |
| Impact | 4 Nm, R= 12.5 mm |
| Kink | No Kink |
| Min. Bending radius | R = 20 mm |
| Temperature range | Operation and installation: -0°C to 50°C. Storage: -20°C to 50°C |