tML® 12/Xtended - FO Micro Distribution Trunk Cable both sides 8x MPO/MTP® w. Pins 96E9/125µ OS2 LSHF, Type B, Length: xx in m

\*\*tML® 12

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® 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.

\*\*tML® 12/Xtended - FO Trunk Cables MPO/MTP®

The tML® Xtended - module will be installed in the link on one side rotated 180 degrees. The associated tML® 12/Xtended trunk cable has a type B pin out. The complete link corresponds to EIA / TIA "Method B". The advantage is that before and after migration uniformly configured patch cables and modules are used.

\*\*TECHNISCHE\_DATEN

The tML®- FO trunk cable is preterminated with MPO/MTP® connectors on both ends. 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 fan-out unit is optimized for tML® - Cable Mounting Bracket for Fan-out Units. The module is marked with sequential serial number and article number.

\*\*\*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® APC Male Push Pull Locking with Elite Pins (green) |
| Ferrule | 12 Fiber SM Elite® ferrule, PPS |
| Boot colour | Black |
| Temperature range | -40°C bis +75°C |
| Manufacturer | tde/US Conec |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Fiber | Type | Wavelength | Insertion loss typ. | Insertion loss max. | Return loss min. |
| 9/125µ OS2 | MPO/MTP®APC | 1310 / 1550 nm | ≤ 0.10 dB | 0.20 dB | 75 dB |

\*\*\*FO Fan-Out

|  |  |
| --- | --- |
| Length Fan-Out | 50 mm |
| Max. Ø Fan-Out | 20 mm |
| Parallel connectors | 8 |

\*\*\*FO Cables

|  |  |
| --- | --- |
| Standards | Environmental and mechanical tests according to EN 187000 and IEC 60794-1-2. |
| Flame retardant | IEC 60332-3 |
| Halogen free | IEC 60754-1 |
| Low smoke emission | IEC 61034-1/2 |
| Reaction to fire (Euroclasses) | Dca |

|  |  |
| --- | --- |
| Type | Micro Distribution Indoor Cable |
| Fibers | 96 (8 x 12) |
| Strength members | Aramid Yarns  |
| Outer jacket | LSZH |
| Color | Gelb (RAL1021) |
| Weight | 96 kg/km |
| Outer Ø | 9.5 ± 0.5 mm |
| Tensile Load | 1500 N |
| Crush | 700 N |
| Temperature range | -20°C to +70°C |
| Min. bending radius | 10 x Ø Outer |