tSML - FO Micro Distribution Trunk Cable both sides 1x MPO Female 12E9/125µ OS2 LSHF, Type C, Length: xxx in m

\*\*tSML - tde Semi Modular Link

tSML is a modular developed cabling system, which consists of two core components: module and trunk cable. The system components, preterminated with connectors and tested ex works, facilitate very fast installation of both twisted pair and fiber-optic cables. Ready-made trunk cables, providing a high number of pairs or fibers, can simply be plugged together using patch panels. Up to 96x LC duplex and/or 48 x RJ45 of haven can be accommodated in such a way on 1U. At the heart of the System are MPO/MTP® and Telco connectors, with which 12 optical fibers or 24 copper pairs can be connected simultaneously. Fiber-optic and twisted pair modules can be combined on 1U within a panel without difficulty.

\*\*tSML - FO Trunk Cables MPO/MTP®

\*\*TECHNISCHE\_DATEN

The tSML- 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.

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| --- | --- |
| Cable | Round cable, loose tube, LSOH, yellow |
| Nominal diameter | 3.0 mm |
| Connectors | MPO/MTP® APC Female Push Pull (green) |
| 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  |

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

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

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| --- | --- | --- | --- | --- | --- |
| 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 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 | IVH12E09 |
| Loose tube | 12 coated fibers within PVC-core tube |
| Fiber type | SM-G652D, 9/125µ, Corning SMF-28e+, OS2 |
| Strength members | Aramid yarn |
| Outer jacket | LSZH (Halogen free, low smoke, flame retardant thermoplastic compound) |
| Jacket color | Yellow, RAL 1021 |
| Identification | "t d e – IVH12E09–MPO LSZH" and sequential meter marking + Lot number |

|  |  |
| --- | --- |
| Outer diameter cable | 3.0 ± 0.1 mm |
| Diameter PVC-core tube | 1.8 ± 0.1 mm |
| Wall thickness PVC-core tube | 0.35 mm – 0.40 mm |
| Max. tensile load | 300 N |
| Min. bending radius | 30 mm |
| Temperature range (storage, installation, operation) | -20°C to +70°C |