tSML - FO Trunk Cable 4x MPO Female/4x MPO Female 48G50/125µ OM4 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 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 | Universal Cable |
| Connectors | MPO/MTP®Push Pull (magenta) |
| Pin out | 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 |

\*\*\*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 (Magenta) |
| Ferrule | 12 Fiber MM Elite® ferrule, PPS |
| Boot colour | Black |
| Manufacturer | tde/US Conec |

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| --- | --- | --- | --- | --- | --- |
| 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 |

\*\*\*FO Fan-Out

|  |  |
| --- | --- |
| Fan-out length | 50 mm |
| Ø Fan-out | approx 16 - 19 mm |
| Ø Single unit | 3.0 mm |
| Single unit length | 78 ± 5 cm (not stepped) |

\*\*\*FO Cables

|  |  |
| --- | --- |
| Temperature range | Storage -25 to +70°C, IEC 60794-1-22 F1 |
|  | Pulling in -10 to +50°C |
|  | Operation -25 to +60°C |
| Tensile performance | IEC 60794-1-21 E1 |
| Crush resistance | IEC 60794-1-21 E3 |
| Impact | IEC 60794-1-21 E4 |
| Repeated bending | IEC 60794-1-21 E6 |
| Torsion | IEC 60794-1-21 E7 |
| Bend | IEC 60794-1-21 E11 |
| Water penetration | IEC 60794-1-22 F5 |

|  |  |
| --- | --- |
| Sheath colour | green, similar to RAL 6016 |
| Zero halogen, no corrosive gases | IEC 60754-1/-2, EN 60754-1/-2, VDE 0482-754-1/-2 |
| Flame propagation | IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2 |
| Flame spread | IEC 60332-3-24, EN 50266-2-4, VDE 0482-266-2-4 |
| Smoke density | IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2 |
| Reaction to fire (Euroclasses) | EN 13501-6: Eca |

|  |  |
| --- | --- |
| Cabletype | Universal U-DQ(ZN)BH for indoor and outdoor use |
|  | non metallic, dry interstices, rodent protection, flame retardant, in accordance with IEC 60332.1 and IEC 60332.3 C |
| Fibertype | Corning G50/125 OM4 |
| No. of fibers | 48 |
| Loose tube | 4 |
| Sheath ø | 11.4 mm |
| Weight | 149 kg/km |
| Bending radius | 175 mm |
| Tensile load short term | 9.000 N |
| Tensile load continuous | 5.000 N |
| Crush resistance short term | 5.000 N |
| Crush resistance continuous | 3.000 N |
| Fire load | 616 kWh/km |
|  | 2218 MJ/km |

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| --- | --- |
| Tolerances for lengths up to 40m | ± 100 cm |
| Tolerances for lengths up to 100m | ± 100 cm |
| Tolerances for lengths from 100m | ± 2% |