tSML - FO Breakout Module 19"/0.5U straight 4x MPO/MTP® with Pins/16x LC APC Duplex 9/125µ OS2 40GbE

\*\*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 - LWL Breakoutmodule 19"/ 0.5HE

\*\*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. 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. The modules are ROHS compliant.

|  |  |
| --- | --- |
| Entry | 4 x MPO/MTP®Male Adapter (green) front |
| Exit | 16 x LC APC Duplex Adapter (green) front |
| 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 |

\*\*\*tSML - FO Modules 19"/ 0.5U

|  |  |
| --- | --- |
| Box | stainless steel |
| Front plate | stainless steel |
| Dimensions | 19", 0.5U, depth 11 cm |

\*\*\*FO Adapters

|  |  |
| --- | --- |
| Type | MPO/MTP® |
| Application | Singlemode OS2 APC |
| Design | without Flange |
| Connector style | SC Simplex |
| Key Orientation | Type A, Key up/down |
| Color | Green |
| Material | Plastic |
| Sleeve | -- |
| Shutter | -- |
| Standards | IEC 61754-7 TIA 604-5 |
| Manufacturer | US Conec |

\*\*\*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 Adapters

|  |  |
| --- | --- |
| Type | LC Duplex |
| Application | Singlemode OS2 APC |
| Design | One-Piece without flange |
| Connector style | SC Simplex |
| Color | Green |
| Material | Plastic |
| Sleeve | Zirkonia Staight Split |
| Shutter | -- |
| Manufacturer | tde |

\*\*\*FO Connectors

|  |  |
| --- | --- |
| Connector Type | LC APC Unibody Simplex |
| Housing | Plastic, Green |
| Ferrule | Zirconia Straight Split, Spring-loaded Axially |
| Ferrule Hole | 125.5 µ |
| Ferrule Concentricity | ≤ 0.6 µ |
| Mating Cycles | 500 |
| Operating Temperature | -40°C up to +75°C |
| Strain Relief to | 100 N |
| Manufacturer | tde |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Fiber | Type | Wavelength | Insertion loss typ. | Insertion loss max. | Return loss min. |
| 9/125µ | LC APC | 1310 / 1550 nm | ≤ 0.10 dB | 0.18 dB | 75 dB |