tML® - FO patch cord both sides 1x MPO/MTP® Female 12G50/125µ OM5 LSOH, Type B, Length: xxx

\*\*tML® Xtended

tML® Xtended 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® 12 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 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® 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® - 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® Xtended - FO Patch cord MPO/MTP® SR4

\*\*TECHNISCHE\_DATEN

The tML®- FO patch cord 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.

|  |  |
| --- | --- |
| Cable | Round cable, 3 mm, loose tube, LSOH, limegreen |
| Option | unsensitive ClearCurve® Corning fiber |
| Connectors | MPO/MTP®Female Push Pull (limegreen) |
| Pin out | Type B |
| 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 |
| Ferrule | 12 Fiber MM Elite® ferrule, PPS |
| Boot colour | Black |
| Manufacturer | tde/US Conec |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Fiber | Type | Wavelength | Insertion loss typ. | Insertion loss max. | Return loss min. |
| 50/125µ OM5 | MPO/MTP® | 850 nm | ≤ 0.11 dB | 0.25 dB | 35 dB |

\*\*\*FO Cables

|  |  |
| --- | --- |
| Loose tube | unfilled (FRNC) |
| Wall thickness PVC-tube | 0.20 mm – 0.25 mm |
| Outer diameter | 1.8 mm with 12 optical fibres |
| Tube colour | green |
| Colour code fibres (1-12) | red, green, blue, yellow, white, grey, brown, violet, turquoise, black, orange, pink |

|  |  |
| --- | --- |
| Strain relief elements | Aramid |
| Strength members | Fiberglass-reinforced plastic (FRP) |

|  |  |
| --- | --- |
| Outer jacket | Halogen-free and flame-retardant material (FRNC) |
| Wall thickness | approx. 0.4 mm |
| Outer diameter | approx. 3.0 mm |
| Colour | lime green |
| Inkjet - marking (black) | t d e – IVH12G50–MPO-OM5 LSZH (F.RoHS) |

|  |  |
| --- | --- |
| Min. bending radius fixed (static) acc. IEC 60794-1-2 E11A | 10 x outside diameter |
| Min. bending radius during assembly (dynamic), with additional tensile strain acc. IEC 60794-1-2 E6 | 15 x outside diameter |
| Max. tensile force acc. IEC 60794-1-2 E1, short term | 300 N |
| Max. crush resistance acc. IEC 60794-1-2 E3, long term | 150 N/dm |
| Max. crush resistance acc. IEC 60794-1-2 E3, short term | 1500 N/dm |
| Cable weight | 15.0 kg/km |

|  |  |
| --- | --- |
| Transport and storage | -40°C to +80°C |
| Verlegung | -20°C to +50°C |
| In use acc. IEC 60794-1-2 F1 | -40°C to +80°C |

|  |  |
| --- | --- |
| Cable is flame-retardant | acc. to IEC 60332-1-2 |
| Smoke density | acc. to IEC 61034 |
| Halogen-free | acc. to IEC 60754-1 |
| Acidity of the combustion gases | acc. to IEC 60754-2 |
| Fire load | 0.17 MJ/m |
| Reaction to fire (Euroclasses) | Dca |

|  |  |
| --- | --- |
| Chemical characteristics | No resistance to oil, petrol, acid and leach |
| Standardisation | IEC 60794-2 |