FO Patch cord MPO24 Female/ MPO24 Male 24G50/125µ OM4 100GbE, Type A, Length: xxx

\*\*tde - Fiber Optic Assemblies

The tde patch  and trunk cables are manufactured completely at the German facility in Ohrte. Production processes at tde meet the latest standards, and the company has one of the most up-to-date fiber optic assembly houses in Europe. Fiber optic patch cables and trunk cables are manufactured in many different configurations using highly automated processes on two independent mass production lines. The range of products on offer encompasses the entire spectrum of connector types available on the market. Production capacity is around 100,000 fiber optic connectors per month, and this can be ramped up easily whenever required. To guarantee consistently top quality, only the best components from renowned vendors are used. All tde production staff have the necessary qualifications and education, and have been well trained in using specialist technical equipment such as laser cleavers and glue-dispensing robots.
Each cable application is subjected to a full test procedure comprising interferometer measurements, insertion loss and return loss measurements and a final visual inspection to ensure that only 100% error-free products are shipped to the customer.

Products made by tde perform at least internationally accepted quality standards and norms. The quality management system is ISO 9001, ISO 14001 and TL9000 certified.

\*\*FO MPO/MTP® Standard

\*\*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 | Round cable 3.6 mm, loose tube, LSOH, magenta |
| Connectors | MPO/MTP®Female/Male Push Pull (magenta) |
| Pin out | Method A |
| 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 m (every length available)

\*\*\*FO Connectors

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|  |  |
| --- | --- |
| Type | MPO/MTP® Female Push Pull Locking (magenta) |
| Ferrule | 24 Fiber MM Elite® ferrule, PPS |
| Boot colour | Red |
| Temperature range | -40°C to +75°C |
| Manufacturer | tde/US Conec |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Fiber | Type | Wavelength | Insertion loss typ. | Insertion loss max. | Return loss min. |
| 50/125µ OM4 | MPO/MTP® | 850 nm | ≤ 0.25 dB | 0.45 dB | 20 dB |

\*\*\*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® Male Push Pull Locking with Elite Pins (magenta) |
| Ferrule | 24 Fiber MM Elite® ferrule, PPS |
| Boot colour | Red |
| Temperature range | -40°C to +75°C |
| Manufacturer | tde/US Conec |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Fiber | Type | Wavelength | Insertion loss typ. | Insertion loss max. | Return loss min. |
| 50/125µ OM4 | MPO/MTP® | 850 nm | ≤ 0.25 dB | 0.45 dB | 20 dB |

\*\*\*FO Cables

|  |  |
| --- | --- |
| Standards | EN 50173-5 |
|   | IEC 60794-2-20 |
|   | ISO/IEC 24764 |

|  |  |
| --- | --- |
| Type | IVH24G50-OM4 |
| Fiber | 24 primary coated fibres nominally 242 μm, arranged in 2 groups of 12 fibres, Group 1: Red id tread Group 2: Green id tread |
| Fiber colors | According to TIA/EIA 598-C also in agreement with IEC 60304: 1-12: Blue, orange, green, brown, grey, white, red, black, yellow, violet, pink and aqua |
|   | 13-24: Blue, orange, green, brown, grey, white, red, transparent, yellow, violet, pink and aqua (with add. ring mark) |
| Strength member | Ultra high modulus Aramid yarns |
| Sheath | Halogen free, flame resistant thermoplastic sheathing compound acc. to EN 50290-2-27, UV stabilised |
| Sheath colors | Magenta, RAL 4003 |

|  |  |
| --- | --- |
| IEC 60332-1-2 | Pass |
| IEC 60332-2-2 | Pass |
| IEC 60754-1 | No halogens |
| IEC 60754-2 | No acid matters |
| IEC 61034-2 | No dense smoke |

|  |  |
| --- | --- |
| 200 MJ/km | 0.5 KWh/m |

|  |  |
| --- | --- |
| Outer diameter cable | ø3.6 mm +0.1 mm -0.3 mm |
| Diameter PVC-core tube | 2.0 ± 0.1 mm |
| Wall thickness PVC-core tube | 0.35 mm – 0.40 mm |
| Weight | 11 kg/km |
| Tensile strength (dynamic) | 220 N |
| Tensile strength (permanent) | 110 N |
| Compressive strength (crush) | 400 N |
| Impact | 4 Nm, R= 12.5 mm |
| Kink | No Kink |
| Min. Bending radius | R = 20 mm |
| Temperature range | Operation and installation: -0°C to 50°C. Storage: -20°C to 50°C |