FO Universal Cable 12x E2000/12x E2000 12G50/125µ OM2 LSHF, Length: xxxx

\*\*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 Trunk Cables Standard

\*\*TECHNISCHE\_DATEN

\*\*\*FO Connectors

|  |  |
| --- | --- |
| Type | E2000 |
| Ferrule | Ceramic |
| Ferrule Hole | 126 µ |
| Connector colour | Beige |
| Lever colour | Black |
| Boot colour | Black |
| Manufacturer | RDM |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Fiber | Type | Wavelength | Insertion loss typ. | Insertion loss max. | Return loss min. |
| 50/125µ OM2 | E2000 | 850 nm | ≤ 0.25 dB | 0.45 dB | 30 dB |
| 62.5/125µ OM1 | E2000 | 850 nm | ≤ 0.25 dB | 0.45 dB |   |

\*\*\*FO Fan-Out

|  |  |
| --- | --- |
| Fan-out length | 50 mm |
| Ø Fan-out | 16 mm |
| Ø Single unit | 1.7 - 2 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, non 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: Dca-s2,d1,a1 |

|  |  |
| --- | --- |
| 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 OM2 |
| No. of fibers | 12 |
| Loose tube | 1 |
| Sheath ø | 7.6 mm |
| Weight | 67 kg/km |
| Bending radius | 115 mm |
| Tensile load short term | 3.000 N |
| Tensile load continuous | 1.000 N |
| Crush resistance short term | 5.000 N |
|  Crush resistance continuous | 3.000 N |
| Fire load | 275 kWh/km |
|   | 990 MJ/km |

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