FO Breakout cable 50/125µ OM3 LSOH 2,0mm

\*\*tde - Standard FO Cables

The standard fiber optic cable types of tde specifically for the assembling of patch and adapter cables, pigtails and trunk cables has been developed. Also the use in FTTD applications inside buildings is possible. The breakout cables have up to 24 individual elements with a 2mm diameter. The overall cable diameter is very slim.
These cables are characterized by very good termination properties. The cable jacket and the secondary coating are easy removable.

\*\*FO Cables

Features
• Robust, flexible fiber optic Duplex cable with a combined sheath based on 2 single fiber cables 2.8 mm with semi tight buffer 0.9mm.
• Easy handling and simple to strip off.
• Low Fire load due to the halogen free LSOH sheath.
Application
• Patch cable between terminal distributors and/or end devices
• Direct connector installation
• Can be spliced in cable terminal distributors.
Optical characteristics
The cables are available with different types of fiber

\*\*TECHNISCHE\_DATEN

|  |  |
| --- | --- |
| Temperature range | Operation: -20 to +60°C IEC 60794-2-10 |
|  | -10 to +60°C for assembled patch cords |
| Tensile performance | IEC 60794-1-21 E1 A |
| 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 A |

|  |  |
| --- | --- |
| Sheath colour | G50/125 OM3 aqua, RAL 6027 |
| Zero halogen, no corrosive gases | IEC 60754-1/-2, EN 60754-1/-2, VDE 0482-754-1/-2 |
| Flame propagation | EC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2, SEV TP 20B/3C 3.4.1.1 |
| 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 |

|  |  |  |
| --- | --- | --- |
| Fibertype | MM-OM3, 50/125µ |  |
| Numerical aperture | 0.200 ± 0.015 |  |
| Core Ø | 50 ± 2.5 µm |  |
| Max. Core non-circularity | 5 % |  |
| Cladding Ø | 125 ± 2 µm |  |
| Max. Cladding non-circularity | 1.0 % |  |
| Max. Cladding/Core concentricity error | 1.5 µm |  |
| Max. Cladding/Core concentricity error | 12 µm |  |
| Coating Ø | 242 ± 5 µm |  |
| Proof test | 100 kpsi |  |
| Wavelength | 850 nm | 1300 nm |
| Attenuation typ. (cabled) | 2.5 dB/km | 0.5 dB/km |
| Attenuation max. (cabled) | 2.7 dB/km | 0.7 dB/km |
| OFL Bandbreite per TIA/EIA 455-204 and IEC 60793-1-41 | 1500 MHz x km | 500 MHz x km |
| High Performance EMB, minEMBc, per TIA/EIA 455-220A and IEC 60793-1-49 | 2000 MHz x km |  |
| Refractive index | 1.480 | 1.479 |

|  |  |
| --- | --- |
| Description | Duplex I-K(ZN)HH |
| CableØ | 4.8 x 3.2 mm |
| Weight | 21 kg/km |
| Bending radius | 50 mm |
| Tensile load | 200 N |
| Crush resistance short term | 3000 N/cm |
| Fire load | 100 kWh/km |
| Fire load | 360 MJ/km |