FO Breakout cable 9/125µ G.652.D 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

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| 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 |

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| Sheath colour | E9/125 G.652.D yellow, RAL 1021 |
| Zero halogen, no 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, 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 |

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| Fibertype | SM-G.652.D, 9/125µ |   |   |   |
| Numerical Aperture | 0.14 | 0.14 |   |   |
| Core Ø | 8.2 µm | 8.2 µm |   |   |
| Cladding Ø | 125 ± 0.7 µm | 125 ± 0.7 µm |   |   |
| Max. Core/Cladding Concentricity Error | 0.5 µm | 0.5 µm |   |   |
| Max. Coating Non-Circularity Coating | 1.0 % | 1.0 % |   |   |
| Coating Ø | 245 ± 5.0 µm | 245 ± 5.0 µm |   |   |
| Max. Cladding/Coating Concentricity Error | 12 µm | 12 µm |   |   |
| Max. Coating Non-Circularity | 6 % | 6 % |   |   |
| Min. Fiber Bending Radius | 4.0 m | 4.0 m |   |   |
| Nom. Operating Temperature Range | -60 to +85 °C | -60 to +85 °C |   |   |
| Proof test | 100 kpsi | 100 kpsi |   |   |
| Wavelength | 1310 nm | 1383 nm | 1550 nm | 1625 nm |
| Typ. Attenuation (cabled) | 0.34 dB/km | 0.34 dB/km | 0.22 dB/km | 0.24 dB/km |
| Max. Attenuation (cabled) | 0.36 dB/km | 0.36 dB/km | 0.24 dB/km | 0.25 dB/km |
| Max. Chromatic Dispersion | 3.5 ps/nm x km |   | 18 ps/nm x km |   |
| Nom. Zero Dispersion Wavelength | 1313 nm |   |   |   |
| Mode Field (Petermann II) | 9.2 ± 0.4 µm |   | 10.4 ± 1.0 µm |   |
| Max. Cable Cut off Wavelength λccf | 1260 nm |   | 1260 nm |   |
| Dispersion Coefficient | 0.2 ps/√km | 0.2 ps/√km | 0.2 ps/√km | 0.2 ps/√km |
| Max. Attenuation nonlinearity | 0.05 db | 0.05 db | 0.05 db |   |
| Refractive Index | 1.467 |   | 1.467 |   |

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| Description | Duplex I-V(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 |