Universal-Kabel (MultiTube); gelgefüllte vers. Bündeladern; 9KN Zugfest.; nichtm. Nagetierschutz

\*\*tde - FO Universal cables

This cable can be used for LAN and WAN backbones, telecom access lines, fiber to business and fiber to the building drop connections as well as fiber to the home drop and access connections. With its FireBur® LSHF sheathing this cable is ideal for mixed indoor and outdoor installation. This cable features a high tensile strength and a degree of rodent protection, effective in many cases. It is equally suited for installation in ducts and on trays. The cable is suited for installation in tubes by blowing and flooding. The cable may be used for direct burial with proper sand back filling.

\*\*FO Cables

Features

• Robust, non metallic fibre optic outdoor and indoor cable with stranded loose tubes.
• High crush resistance for high transmission reliability.
• Easy handling due to cable construction with dry interstices.
• Non metallic rodent protection.
• The two coloured ripcords are easy to identify and enable the safe opening of the cable sheath.
• Flame retardant halogen-free FR/LS0H sheath.

Application

• LAN backbone, access and riser zone.
• Connection cable between the building distributors and/or floor distributors.
• Suitable for laying in cable trays, ducts and vertical shafts.
• Can also be spliced in all FO distributors and joints.

\*\*TECHNISCHE\_DATEN

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| 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 |

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| Sheath colour | green, similar to RAL 6016 |
| 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 |
| 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: Eca |

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| 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 E9/125 G.652.D |
| No. of fibers | 48 |
| Loose tube | 4 |
| Sheath ø | 11.4 mm |
| Weight | 149 kg/km |
| Bending radius | 175 mm |
| Tensile load short term | 9.000 N |
| Tensile load continuous | 5.000 N |
| Crush resistance short term | 5.000 N |
| Crush resistance continuous | 3.000 N |
| Fire load | 616 kWh/km |
|   | 2218 MJ/km |

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