**TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE**

1. **Cable construction**

|  |  |
| --- | --- |
| Cable type | A-D(ZN)2Y-(2-4)-250-652D/657A1-7201  |
|  |
| Cable construction1. Outer sheath: UV-resistant PЕ2. Strength element of core: aramid yarns3. The first layer of the loose tube: PC4. The second layer of the loose tube: PBT Optical loose tube: 1,75 mm PBT\PC Tube5. Intramodule compound: Thixotropic compound6. Optical Fiber: Single-mode Fiber according to ITU-T G.652.D and G.657.A1 |
| Temperature ranges | Storage and transportation temperature | Installation temperature | Operating temperature |
| from -40 to +70 °С | from -10 to +60 °С | from -30 to +70 °С |
| Resistance to water penetration | Water resistant |
| Relative humidity at +350 C, % | 98 |
| Outer diameter, mm | 2,4±0,2 |
| Average weight of 1 km of the cable, kg | 5±5% |

1. **Mechanical characteristics**

|  |  |
| --- | --- |
| Calculated tensile strength, not less than[[1]](#footnote-1), kN Dynamic | 0,2 |
| Minimum bending radius | 15D |
| Short-term crush test, kN/cm (N/10cm) | 0,1 (1000) |
| Resistance to axial torsion at angle ±360° on 1 m length cable  | Resistant |
| Resistance to bends at angle ± 900 with a radius equal to 15 nominal cable diameters | Resistant |
| Resistance to impact 2 J | Resistant |

1. **Packaging and marking**

|  |  |
| --- | --- |
| Cable factory length, km | 6 |
| Package | Coil ОККО №1 (495х445х495) |
| Tolerance, % | ±3,0 |
| Short lengths (customer approval) | Maximum 5%  |
| Marking method | Inkjet printing |
| The accuracy of marking, % | ±0,5 |

1. **Coloring**

|  |
| --- |
|  Coloring of fibers in loose tube (According to Customer’s requirements color can be different).  |
| 1 | 2 | 3 | 4 |
| red | green | blue | yellow |

1. **Product data**

|  |  |  |
| --- | --- | --- |
| **Fiber count** | 2 | 4 |
| **Loose tubes x fibers** | 1x2 | 1x4 |

1. Tensile strength value is for maximum number of fibers design [↑](#footnote-ref-1)