

TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

1. Cable construction

| | | | |
|--|--|--------------------------|-----------------------|
| Cable type | A-DQ(ZN)B4Y-(1-8)x12-G.652.D-6308 | | |
| | | | |
| <p>Cable construction</p> <ol style="list-style-type: none"> 1. Outer sheath: PA 2. Strength element of core: Water swellable glass yarn 3. Optical loose tube: 2,3mm PBT Tube 4. Intramodule compound: Thixotropic compound 5. Optical Fiber: Single-mode Fiber according to ITU-T G.652.D 6. Insulation of central strength element: PE 7. Central strength element: Glass reinforced plastic 2,6mm FRP-E with insulation up to 3,7mm | | | |
| Temperature ranges | Storage and transportation temperature | Installation temperature | Operating temperature |
| | from -40 to +70 °C | from -10 to +50 °C | from -40 to +60 °C |
| Resistance to water penetration | Water resistant | | |
| Relative humidity at +35° C, % | 98 | | |
| Outer diameter, mm | 12,1±0,2 | | |
| Average weight of 1 km of the cable, kg | 124±5% | | |

2. Mechanical characteristics

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|--|------------|
| Calculated tensile strength, not less than ¹ , kN Dynamic | 3,5 |
| Minimum bending radius | 20D |
| Short-term crush test, kN/cm (N/10cm) | 0,3 (3000) |
| Resistance to axial torsion at angle ±360° on 4 m length cable | Resistant |
| Resistance to bends at angle ± 90° with a radius equal to 20 nominal cable diameters | Resistant |
| Resistance to impact 10 J | Resistant |

¹ Tensile strength value is for maximum number of fibers design

3. Packaging and marking

| | |
|-----------------------------------|--------------------------|
| Cable factory length, km | 6 |
| Package | Drum №17 (1715x955x1715) |
| Tolerance, % | ±3,0 |
| Short lengths (customer approval) | Maximum 5% |
| Marking method | Inkjet printing |
| The accuracy of marking, % | ±0,5 |

4. Coloring

| | | | | | | | | | | | |
|---|-------|------|--------|-------|-------|-------|--------|------|-------|--------|------|
| Coloring of fibers in loose tube (According to Customer's requirements color can be different). | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| red | green | blue | yellow | white | slate | brown | violet | aqua | black | orange | pink |

| | | | | | | | |
|---|-------|------|--------|-------|-------|-------|--------|
| Coloring of optical loose tube (According to Customer's requirements color can be different). Core-filler color is natural. | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| red | green | blue | yellow | white | slate | brown | violet |

5. Product data

| | | | | |
|-----------------------------|------|------|------|------|
| Fiber count | 24 | 48 | 72 | 96 |
| Loose tubes x fibers | 2x12 | 4x12 | 6x12 | 8x12 |