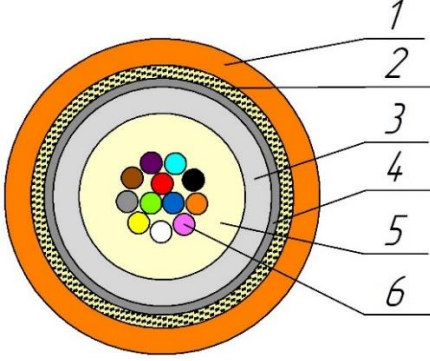


PRELIMINARY TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

1. Cable construction

| | | | |
|---|--|--------------------------|-----------------------|
| Cable type | A-D4Y-(6-12)-250-652D/657A1-7212 | | |
|  | | | |
| Cable construction 1. Outer sheath: PA 2. Strength element of core: Aramid yarns 3. The first layer of the loose tube: PC 4. The second layer of the loose tube: PBT Optical loose tube: 1,7 mm PBT\PC Tube 5. Intramodule compound: Thixotropic compound 6. 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 °C | from -10 to +60 °C | from -30 to +70 °C |
| Resistance to water penetration | Water resistant | | |
| Relative humidity at +35 ⁰ C, % | 98 | | |
| Outer diameter, mm | 2,0±0,1 | | |
| Average weight of 1 km of the cable, kg | 4±5% | | |

2. Mechanical characteristics

| | |
|--|------------|
| Calculated tensile strength, not less than ¹ , kN | |
| Dynamic | 0,1 |
| 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 ± 90 ⁰ with a radius equal to 15 nominal cable diameters | Resistant |
| Resistance to impact 1 J | Resistant |

¹ Tensile strength value is for maximum number of fibers design

3. Packaging and marking

| | |
|-----------------------------------|----------------------------|
| Cable factory length, km | 6 |
| Package | Coil OKKO №1 (495x445x495) |
| 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 |

5. Product data

| | | |
|----------------------|-----|------|
| Fiber count | 6 | 12 |
| Loose tubes x fibers | 1x6 | 1x12 |