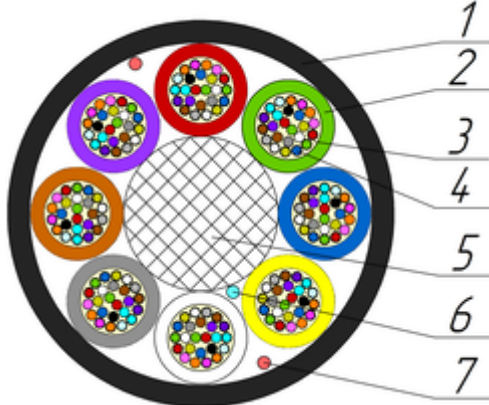


TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

1. Cable construction

| | | | |
|---|--|--------------------------|-----------------------|
| Cable type | A-DQ(ZN)2Y 8x24-G.652.D/G.657.A1-200-10134 | | |
| <div></div> | | | |
| <p>Cable construction</p> <p>1. Outer sheath: UV-resistant PE</p> <p>2. Optical loose tube: 1,8mm PBT Tube</p> <p>3. Intramodule compound: Thixotropic compound</p> <p>4. Optical Fiber: 200 mkm Single-mode Fiber according to ITU-T G.652.D and G.657.A1</p> <p>5. Central strength element: Glass reinforced plastic 2,8mm FRP-E</p> <p>6. Water-blocking element of core: Water-swellable yarn</p> <p>7. Rip-cord: Water-swellable yarn</p> | | | |
| Temperature ranges | Storage and transportation temperature | Installation temperature | Operating temperature |
| | from -40 to +70 °C | from -15 to 50 °C | from -30 to +70 °C |
| Resistance to water penetration | Water resistant | | |
| Relative humidity at +35° C, % | 98 | | |
| Outer diameter, mm | 7,4±0,2 | | |
| Average weight of 1 km of the cable, kg | 53±5% | | |

2. Mechanical characteristics

| | |
|--|-------------|
| Calculated tensile strength, not less than ¹ , kN Dynamic | 4 |
| Minimum bending radius | 15D |
| Short-term crush test, kN/cm (N/10cm) | 0,12 (1200) |
| Resistance to axial torsion at angle ±360° on 2 m length cable | Resistant |
| Resistance to bends at angle ± 90° with a radius equal to 15 nominal cable diameters | Resistant |
| Resistance to impact 5 J | Resistant |

¹ Tensile strength value is for maximum number of fibers design

3. Packaging and marking

| | |
|-----------------------------------|---------------------------|
| Cable factory length, km | 6 |
| Package | Drum №12a (1221x855x1221) |
| 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). M-fiber with black ring mark.

| | | | | | | | | | | | |
|--------------|----------------|---------------|-----------------|----------------|----------------|----------------|-----------------|---------------|--------------------|-----------------|---------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| red | green | blue | yellow | white | slate | brown | violet | aqua | black | orange | pink |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| <u>red+m</u> | <u>green+m</u> | <u>blue+m</u> | <u>yellow+m</u> | <u>white+m</u> | <u>slate+m</u> | <u>brown+m</u> | <u>violet+m</u> | <u>aqua+m</u> | <u>transparent</u> | <u>orange+m</u> | <u>pink+m</u> |

Coloring of optical loose tube (According to Customer's requirements color can be different).

| | | | | | | | |
|-----|-------|------|--------|-------|-------|-------|--------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| red | green | blue | yellow | white | slate | brown | violet |

5. Product data

| | |
|----------------------|------|
| Fiber count | 192 |
| Loose tubes x fibers | 8x24 |