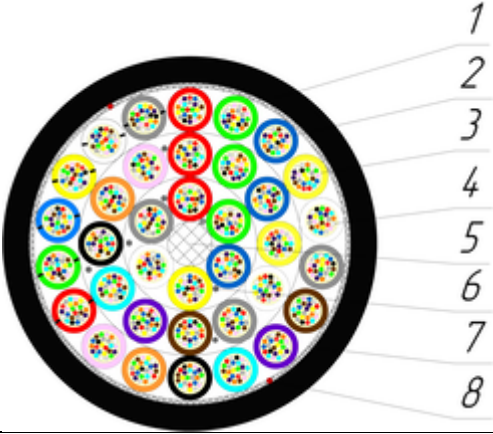


## TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

### 1. Cable construction

Cable type	A-DQ(ZN)B2Y 36x24-G.652.D-6313		
			
<p>Cable construction</p> <ol style="list-style-type: none"> <li>1. Outer sheath: UV-resistant PE</li> <li>2. Optical loose tube: 2,3mm PBT Tube</li> <li>3. Intramodule compound: Thixotropic compound</li> <li>4. Optical Fiber: Single-mode Fiber according to ITU-T G.652.D</li> <li>5. Central strength element: Glass reinforced plastic 2,3mm FRP-E</li> <li>6. Water-blocking element of core: Water-swellable yarn</li> <li>7. Peripheral water-blocking strength element: Water swellable glass yarn</li> <li>8. Rip-cord: Water-swellable yarn</li> </ol>			
Temperature ranges	Storage and transportation temperature	Installation temperature	Operating temperature
	from -20°C to +70°C	from -15°C to +50°C	from -20°C to +70°C
Resistance to water penetration	Water resistant		
Relative humidity at +35 <sup>o</sup> C, %	98		
Outer diameter, mm	19,3±0,2		
Average weight of 1 km of the cable, kg	293±5%		

### 2. Mechanical characteristics

Calculated tensile strength, not less than <sup>1</sup> , kN Dynamic	4
Minimum bending radius	20D
Short-term crush test, kN/cm (N/10cm)	0,05 (500)
Resistance to axial torsion at angle ±360° on 4 m length cable	Resistant
Resistance to bends at angle ± 90 <sup>o</sup> with a radius equal to 20 nominal cable diameters	Resistant
Resistance to impact 5 J	Resistant

<sup>1</sup> Tensile strength value is for maximum number of fibers design

### 3. Packaging and marking

Cable factory length, km	4
Package	Drum №18a (1870x1370x1870)
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>	transparent	<u>orange+m</u>	<u>pink+m</u>

Coloring of optical loose tube (According to Customer's requirements color can be different). Core-filler color is natural. "+m"- denotes single black stripe marking via co-extrusion, white stripe marking for black loose tube.

Layer 1						Layer 2					
1	2	3	4	5	6	1	2	3	4	5	6
red	green	blue	yellow	white	slate	red	green	blue	yellow	white	slate
Layer 2						Layer 3					
7	8	9	10	11	12	1	2	3	4	5	6
brown	violet	aqua	black	orange	pink	red	green	blue	yellow	white	slate
Layer 3											
7	8	9	10	11	12	13	14	15	16	17	18
brown	violet	aqua	black	orange	pink	<u>red+m</u>	<u>green+m</u>	<u>blue+m</u>	<u>yellow+m</u>	<u>white+m</u>	<u>slate+m</u>

### 5. Product data

Fiber count	864
Loose tubes x fibers	36x24