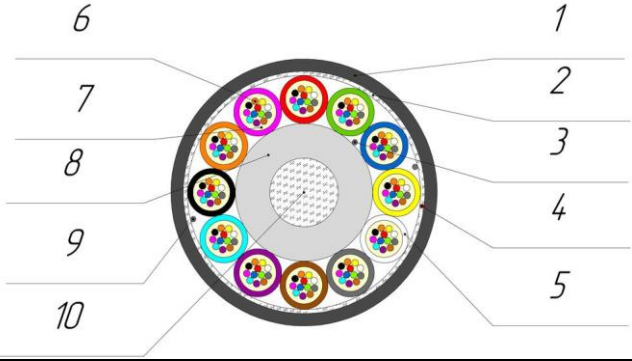


## PRELIMINARY TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

### Cable construction

Cable type	A-DQ(ZN)B2Y-(8-12)x24-6323		
Standards	IEC 60793, IEC 60794		
			
<p>Cable construction</p> <ol style="list-style-type: none"> <li>1. Outer sheath: UV-resistant PE</li> <li>2. Strength element of core: Water swellable glass yarn</li> <li>3. Water-blocking element of core: Water-swellable yarn</li> <li>4. Rip-cord: Synthetic yarn</li> <li>5. Optical loose tube: PBT Tube</li> <li>6. Optical Fiber: 200 μm Single-mode Fiber according to ITU-T G.652.D/G.657.A1</li> <li>7. Intramodule compound: Thixotropic compound</li> <li>8. Insulation of central strength element: PE</li> <li>9. Water-blocking element: Water-swellable yarn</li> <li>10. Central strength element: Glass reinforced plastic FRP-E with insulation</li> </ol>			
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	9,7±0,2		
Average weight of 1 km of the cable, kg	83±5%		

### Mechanical characteristics

Calculated tensile strength, not less than <sup>1</sup> , kN	
Dynamic	2,5
Minimum bending radius	20D
Short-term crush test, kN/cm (N/10cm)	0,15 (1500)
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 5 J	Resistant

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

## Packaging and marking

Cable factory length, km	6
Package	Drum №14 (1400x815x1400)
Tolerance, %	±3,0
Short lengths (customer approval)	Maximum 5%
Marking method	Inkjet printing
The accuracy of marking, %	±0,5

## 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). Core-filler color is natural.											
1	2	3	4	5	6	7	8	9	10	11	12
red	green	blue	yellow	white	slate	brown	violet	aqua	black	orange	pink

## Product data

Fiber count	192	288
Loose tubes x fibers	8x24	12x24