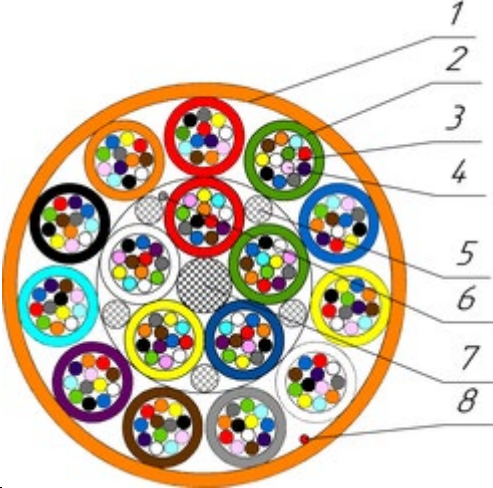


## TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

### 1. Cable construction

Cable type	A-DQ(ZN)4Y (1-16)x12-G.652.D/G.657.A1-1079		
			
<p>Cable construction</p> <ol style="list-style-type: none"> <li>Outer sheath: PA</li> <li>Optical loose tube: 1,45mm PBT Tube</li> <li>Intramodule compound: Thixotropic compound</li> <li>Optical Fiber: Single-mode Fiber according to ITU-T G.652.D and G.657.A1</li> <li>Peripheral strength element: Glass reinforced plastic 0,5mm FRP-E</li> <li>Water-blocking element of core: Water-swellable yarn</li> <li>Central strength element: Glass reinforced plastic 1,0mm FRP-E</li> <li>Rip-cord: Water-swellable yarn</li> </ol>			
Temperature ranges	Storage and transportation temperature	Installation temperature	Operating temperature
	from -40 to +70 °C	from -15 to +50 °C	from -20 to +70 °C
Resistance to water penetration	Water resistant		
Relative humidity at +35° C, %	98		
Outer diameter, mm	7,8±0,2		
Average weight of 1 km of the cable, kg	50±5%		

### 2. Mechanical characteristics

Calculated tensile strength, not less than <sup>1</sup> , kN Dynamic	0,8
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° with a radius equal to 20 nominal cable diameters	Resistant
Resistance to impact 10 J	Resistant

<sup>1</sup> 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).

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).

Layer 1					Layer 2						
1	2	3	4	5	1	2	3	4	5	6	7
red	green	blue	yellow	white	red	green	blue	yellow	white	slate	brown
Layer 2											
8			9			10			11		
violet			aqua			black			orange		

### 5. Product data

Fiber count	192
Loose tubes x fibers	16x12