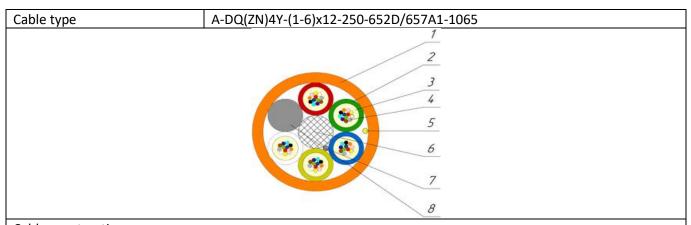


PRELIMINARY TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

1. Cable construction



Cable construction

1. Outer sheath: PA

2. Optical loose tube: 1,75mm PBT Tube

3. Intramodule compound: Thixotropic compound

4. Optical Fiber: Single-mode Fiber according to ITU-T G.652.D and G.657.A1

5. Rip-cord: Water-swellable yarn

6. Central strength element: Glass reinforced plastic 1,8mm FRP-E

7. Water-blocking element of core: Water-swellable yarn

8. Core filler: PE

Temperature ranges	Storage and transportation	Installation	Operating		
	temperature	temperature	temperature		
	from -40 to +70 °C	from -15 to +50 °C	from -40 to +70 °C		
Resistance to water		Water resistant			
penetration					
Relative humidity at +35° C, %		98			
Outer diameter, mm		6,5±0,2			
Average weight of 1 km of the	33±5%				
cable, kg					

2. Mechanical characteristics

Calculated tensile strength, not less than ¹ , kN	1
Dynamic	1
Minimum bending radius	20D
Short-term crush test, kN/cm (N/10cm)	0,12 (1200)
Resistance to axial torsion at angle ±360° on 1 m length cable	Resistant
Resistance to bends at angle $\pm 90^{\circ}$ with a radius equal to 20 nominal	Resistant
cable diameters	
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 №10 (1001x655x1001)
Tolerance, %	±3,0
Short lengths (customer approval)	Maximum 5%
Marking method	Inkjet printing
The accuracy of marking, %	±0,5

4. Coloring

Coloring	Coloring of fibers in loose tube (According to Customer's requirements color can be different).								
1	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). Core-filler color is natural.							
1	2	3	4	5	6		
red	green	blue	yellow	white	slate		

5. Product data

Fiber count	12	24	48	72
Loose tubes x fibers	1x12	2x12	4x12	6x12