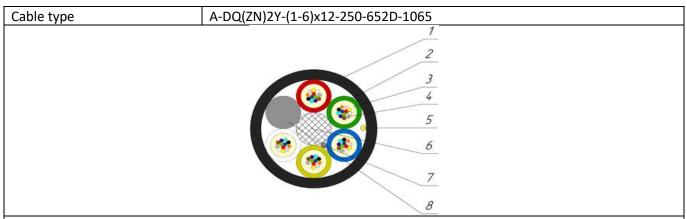


### **TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE**

### 1. Cable construction



Cable construction

1. Outer sheath: UV-resistant PE

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

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	32±5%					
cable, kg						

#### 2. Mechanical characteristics

Calculated tensile strength, not less than <sup>1</sup> , 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	

<sup>&</sup>lt;sup>1</sup> 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