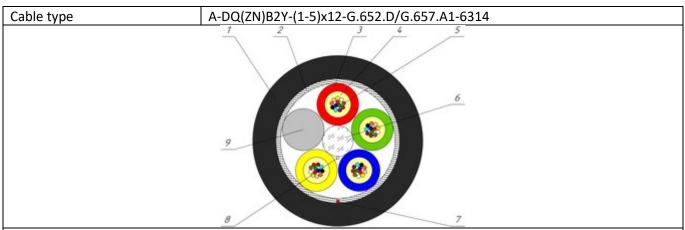


#### **TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE**

#### 1. Cable construction



Cable construction

1. Outer sheath: UV-resistant PE

2. Peripheral water-blocking strength element: Water swellable glass yarn

3. Optical loose tube: 2,7mm PBT Tube

4. Intramodule compound: Thixotropic compound

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

6. Central strength element: Glass reinforced plastic 2,0mm FRP-E

7. Rip-cord: Water-swellable yarn

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

9. Core filler: PE

Temperature ranges	Storage and transportation	Installation	Operating		
	temperature	temperature	temperature		
	from -40 to +70 °C	from -10 to +50 °C	from -40 to +60 °C		
Resistance to water	Water resistant				
penetration					
Relative humidity at +35° C, %	98				
Outer diameter, mm	10,3±0,2				
Average weight of 1 km of the	82±5%				
cable, kg					

### 2. Mechanical characteristics

Calculated tensile strength, not less than¹, kN
Dynamic

Minimum bending radius

Short-term crush test, kN/cm (N/10cm)

Resistance to axial torsion at angle ±360° on 4 m length cable

Resistance to bends at angle ±90° with a radius equal to 20 nominal cable diameters

Resistance to impact 10 J

Resistant

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 №14g (1401x1013x1401)		
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). Core-filler color is natural.						
1	2	3	4	5		
red	green	blue	yellow	white		

## 5. Product data

Fiber count	12	24	48	60
Loose tubes x fibers	1x12	2x12	4x12	5x12