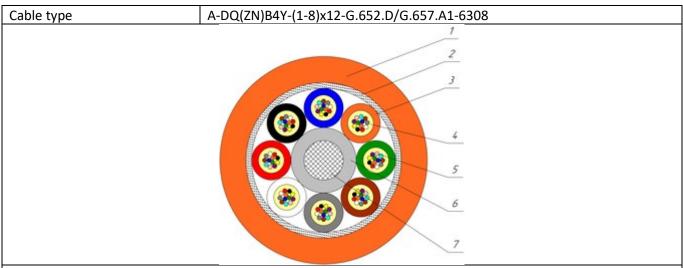


TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

1. Cable construction



Cable construction

1. Outer sheath: PA

2.Strength element of core: Water swellable glass yarn

3. Optical loose tube: 2,3mm 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. Insulation of central strength element: PE

7. Central strength element: Glass reinforced plastic 2,6mm FRP-E with insulation up to 3,7mm

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		12,1±0,2				
Average weight of 1 km of the	124±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

-

¹ Tensile strength value is for maximum number of fibers design



3. Packaging and marking

Cable factory length, km	6		
Package	Drum №17 (1715x955x1715)		
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	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	7	8	
red	green	blue	yellow	white	slate	brown	violet	

5. Product data

Fiber count	24	48	72	96
Loose tubes x fibers	2x12	4x12	6x12	8x12